West Virginia Department of Environmental Protection
Division of Air Quality

Joe Manchin, III
Governor

Stephanie R. Timmermeyer
Cabinet Secretary

Permit to Operate

Pursuant to

Title V

of the Clean Air Act

Issued to:

Allegheny Energy Supply Company, LLC

Pleasants-Willow Island Power Stations/Willow Island, WV

R30-07300005-2008

John A. Benedict
Director

Issued: April 23, 2008 • Effective: May 7, 2008
Expiration: April 23, 2013 • October 23, 2012

Permit Number: **R30-07300005-2008**
Permittee: **Allegheny Energy Supply Company, LLC**
Facility Name: **Pleasants-Willow Island Power Stations**
Mailing Address: **800 Cabin Hill Drive Greensburg, PA 15601**

This permit is issued in accordance with the West Virginia Air Pollution Control Act (West Virginia Code §§ 22-5-1 et seq.) and 45CSR30 — Requirements for Operating Permits. The permittee identified at the above-referenced facility is authorized to operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of this permit.

Facility Location:	Willow Island, Pleasants County, West Virginia
Mailing Address:	P.O. Box 9 (Pleasants Station) / P.O. Box 18 (Willow Island Station) Willow Island, WV 26134
Telephone Number:	304 665-3200 (Pleasants Station) / 304 665-3100 (Willow Island Station)
Type of Business Entity:	LLC
Facility Description:	Electric Generation Service
SIC Code:	4911
UTM Coordinates:	Pleasants: 474.49 km Easting • 4357.40 km Northing • Zone 17 Willow Island: 474.13 km Easting • 4357.36 km Northing • Zone 17

Permit Writer: Bobbie Scroggie

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.

Issuance of this Title V Operating Permit does not supersede or invalidate any existing permits under 45CSR13, 14 or 19, although all applicable requirements from such permits governing the facility's operation and compliance have been incorporated into the Title V Operating Permit.

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1.0 Emission Units and Active R13, R14, and R19 Permits

1.1. Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Pleasants Combustion Sources					
Unit P1	StackP1 StackP2 (separate flues in a common stack shell)	Unit 1 Boiler; Foster Wheeler	1977	6245 mmBtu/hr	ESP1P, Scrubber1P, SCR1P
Unit P2		Unit 2 Boiler; Foster Wheeler	1979/1986	6245 mmBtu/hr	ESP2P, Scrubber2P, SCR2P
Aux Blr PA	Aux Blr Stk P1	Auxiliary Boiler; Babcock & Wilcox, Model FM-120-97	1976	222 mmBtu/hr	N/A
Aux Blr PB	Aux Blr Stk P1	Auxiliary Boiler; Babcock & Wilcox, Model FM-120-97	1976	222 mmBtu/hr	N/A
Gener PA	P55	Emergency Diesel Generator A; Cummins Engine Co. Model # 682FDF4S30FF-W	1976	7.67 mmBtu/hr	N/A
Gener PB	P56	Emergency Diesel Generator B; Cummins Engine Co. Model # 682FDF4S30FF-W	1976	7.67 mmBtu/hr	N/A
Pleasants Material Handling Sources					
LBRH 1	LBRH-1	Lime Barge Receiving Hopper	1976	300 TPH	DC-LBRH
LC-1	LC-1	Lime Conveyor from Receiving Hopper to Transfer House & Transfer Points	1976	300 TPH	Full Enclosure DC-LC1
LCT-1 LCT-2 LCT-3	LCT-1 LCT-2 LCT-3	Lime Conveyor from Transfer House to Lime Silos	1976	300 TPH	DC-LRT1 DC-LRT2 DC-LRT3
LSS-1 LSS-2 LSS-3	LSS-1 LSS-2 LSS-3	Lime Storage Silos (3)	1976	7500 tons each	DC-LSS1 DC-LSS2 DC-LSS3
LFS-1A LFS-1B LFS-1C LFS-2A LFS-2B LFS-2C	LFS-1A LFS-1B LFS-1C LFS-2A LFS-2B LFS-2C	Lime Feed Silos (6)	1976	250 tons each	DC-LFS1A DC-LFS1B DC-LFS1C DC-LFS2A DC-LFS2B DC-LFS2C
Calcilox Bulk Silo		Calcilox Bulk Silo	1976	3000 tons	DC-CBSS
SSLS-A SSLS-B	SSLS-A SSLS-B	Sludge Stabilization Lime Silos A&B	1993	250 tons each	DC-SSLSA, DC-SSLSB
SSCS-A SSCS-B	SSCS-A SSCS-B	Sludge Stabilization Calcinox Silos	1976	600 tons each	DC-SSCS

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
BC-1	BC-1	Barge unloading and Transfer Points (unload barge onto Conveyor BC-1)	1976	3500 TPH	Partial Enclosure
BC-2	BC-2	Conveyor and Transfer Points, (coal to surge bin)	1976	3500 TPH	Partial Enclosure
RCRU-2	RCRU-2	Rail Car Rotary Unload and Transfer to Vibrating Feeders	1976	2000 TPH	Water Spray System
VF3A VF3B	VF3A VF3B	Vibrating Feeders (2) and Transfer Points (coal to conveyor RC-1)	1976	2000 TPH	Partial Enclosure
RC-1	RC-1	Conveyor and Transfer Points (coal to conveyor RC-2)	1976	2000 TPH	Partial Enclosure
RC-2	RC-2	Conveyor and Transfer Points (coal to surge bin)	1976	2000 TPH	Partial Enclosure
VF-1	VF-1	Surge Bin, Hopper, Feeder, and Transfer Point (coal to conveyor)	1976	2000 TPH	Partial Enclosure
C-1	C-1	Conveyor and Transfer Point (coal from surge bin to breaker house)	1976	2000 TPH	Partial Enclosure
CB-A CB-B	CB-A CB-B	Breakers (A,B) and Transfer Point (coal to Belt Feeder)	1976	1000 TPH each	Partial Enclosure
BF-1A BF-1B	BF-1A BF-1B	Belt Feeders (1A,B) and Transfer Point (coal to conveyors)	1976	1000 TPH each	Partial Enclosure
BPC-1	BPC-1	Conveyor - Breaker to Transfer House	1976	1000 TPH	Partial Enclosure
BPC-2	BPC–2	Conveyor - Transfer House to Crusher	1976	1000 TPH	Partial Enclosure
VF-2A VF-2B	VF-2A VF-2B	Crusher House Vibratory Feeders	1977	750 TPH each	Partial Enclosure
C-2	C-2	Conveyor and Transfer Point (coal to lowering well and conveyor C-3)	1976	2000 TPH	Partial Enclosure
C-3	C-3	Conveyor and Transfer Point (coal to lowering well)	1976	2000 TPH	Partial Enclosure
LW#1 LW#2	LW#1 LW#2	Lowering Wells and Transfer Point (coal to coal pile, conveyor)	1976	750 TPH each	N/A
PStockpile 2		Coal Stockpile (wind erosion, reclaim to conveyor, grading, dozer to reload, pan load)	1976	1,500,000 tons	N/A
C-L1 C-L2	C-L1 C-L2	Conveyor and Transfer Point (coal to conveyors C-4A, C-4B)	1976	100 TPH each	Partial Enclosure
C-4A C-4B	C-4A C-4B	Conveyor and Transfer Point (coal from reclaim to crusher house)	1976	750 TPH each	Partial Enclosure
Pcru01 Pcru02	Pcru01 Pcru02	Crushers and Transfer Point (coal to conveyors C-5A, C-5B)	1976	750 TPH each	Partial Enclosure
C-5A C-5B	C-5A C-5B	Conveyor and Transfer Point (coal to boiler house transfer tower)	1976	750 TPH each	Partial Enclosure

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Unit 1 & Unit 2 Coal Silos		Coal Silos for Unit P1 and Unit P2	1976	750 TPH each	DC-CS1, DC-CS2
Fly Ash Silo Unit P1 Fly Ash Silo Unit P2		Fly Ash Silos	1976	55 TPH each	ESP1P ESP2P
U1A, U1B, U2A, U2B		Fly Ash Rotary Unloaders	1976	55 TPH each	N/A
PHaul Roads		Material Haul Roads, Fly Ash and Bottom Ash Haul Roads	N/A	N/A	Vacuum sweeping, watering, dust suppressant
DISPOSAL AREA		Common Fly Ash and Bottom Ash Disposal	N/A	N/A	N/A
Pleasants Gypsum Production Sources					
PG1, PG2, PG3	PG1, PG2, PG3	F-100, F-200, F-300 Belt Filters to Chute Transfer Points	1999	120 TPH total	Full Enclosure
PG4	PG4	Conveyor GC-1 to Dome Transfer Point	1999	120 TPH	Full Enclosure
PG-5	PG-5	Dome Belt Feeder Transfer Point	1999	400 TPH	Full Enclosure
PG-6	PG-6	Conveyor BF-1 to GC-2 Transfer Point	1999	400 TPH	Full Enclosure
PG-7	PG-7	Conveyor GC-2 to GC-3 Transfer Point	1999	600 TPH	Full Enclosure
PG-8	PG-8	Conveyor GC-2 to Loadout Chute Transfer Pt.	1999	600 TPH	Full Enclosure
PG-9	PG-9	Loadout Chute to Barge Transfer Point	1999	600 TPH	N/A
PG-10	PG-10	Conveyor Belt GC-1	1999	120 TPH	Full Enclosure
PG-11	PG-11	Conveyor Belt GC-2	1999	600 TPH	Full Enclosure
PG-12	PG-12	Conveyor Belt GC-3	1999	600 TPH	Full Enclosure
PG-13	PG-13	Oxidation Tank T-100 Vent	1999	75 TPH	N/A
PG-14	PG-14	Oxidation Tank T-200 Vent	1999	75 TPH	N/A

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
Willow Island Combustion Sources					
Unit W1	Stack W1	Unit 1; Babcock & Wilcox	1948	619 mmBtu/hr	ESP1W
Unit W2	Stack W2	Unit 2; Babcock & Wilcox	1959	1605 mmBtu/hr	ESP2W
Aux Blr W3A	Aux Blr Stk W1	Auxiliary Boiler 3A, Johnston Model A500-ALG150	1989	19.89 mmBtu/hr	N/A
Aux Blr W3B	Aux Blr Stk W1	Auxiliary Boiler 3B; Johnston Model A500-ALG150	1988	19.89 mmBtu/hr	N/A
Emer Gen WA	W39	Emergency Generator A	1974	4.22 mmBtu/hr	N/A
Willow Island Material Handling Sources					
BC-3	BC-3	Conveyor and Transfer Point (coal to surge bin)	1986	3500 TPH	Partial Enclosure
BF-1	BF-1	Belt Feeder and Transfer Points (coal to conveyor BC-4)	1986	500 TPH	Partial Enclosure
BC-4	BC-4	Conveyor and Transfer Points (coal to sample house)	1986	500 TPH	Partial Enclosure
RCRU-1	RCRU-1	Rail Car Unload and Transfer to Vibrating Feeders	1976	3500 TPH	Partial Enclosure
VF-A1 VF-A2	VF-A1 VF-A2	Surge Bin, Hopper, Feeder and Transfer Point (rail car unloader to conveyor BC-A	1976	2000 TPH each	Partial Enclosure
BC-A	BC-A	Conveyor and Transfer Points (coal from rail unloading to sample house)	1976	750 TPH	Partial Enclosure
SHTP	SHTP	Sample System Transfer Points (coal to conveyor TC-1 and No. 1 Conveyor)	1949	500 TPH	N/A
TC-1	TC-1	Conveyor and Transfer Points (coal from sample house to Pleasants surge bin)	1976	1000 TPH	Partial Enclosure
No. 1	No. 1	Conveyor and Transfer Points (coal from sample house to crusher)	1949	500 TPH	Partial Enclosure
No. 1a	No. 1a	Crusher Bypass Conveyor and transfer points	2007	500 TPH	Partial Enclosure
Wcru01 Wcru02 Wcru03	Wcru01 Wcru02 Wcru03	Crushers and Transfer Points (coal to collector conveyor and coal to No. 2 Conveyor)	1949	500 TPH	Partial Enclosure
Collector Conveyor	Collector Conveyor	Conveyor and Transfer Points (coal from crushers to either transfer collector or conveyor No. 3)	1949	500 TPH	Partial Enclosure
No. 3	No. 3	Conveyor and Transfer Points (coal from collector conveyor to conveyor NC-B)	1949	500 TPH	Partial Enclosure
BC-B	BC-B	Conveyor and Transfer Points (coal to stockpile - telescoping chute)	1976	500 TPH	Partial Enclosure
Wstockpile 1		Coal Stock[ile (wind erosion, reclaim to conveyor, grading, dozing, pan load)	1949	100,000 tons	N/A

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
VF-B	VF-B	Reclaim Feeder and Transfer Points (coal from Wstockpile 1 to conveyor BC-C)	1976	500 TPH	Partial Enclosure
BC-C	BC-C	Conveyor and Transfer Point (stockpile to Wcru03)	1976	500 TPH	Partial Enclosure
GF-C2	GF-C2	Limestone Gravimetric Feeder and Hopper and Transfer Point	1986	300 TPH	Partial Enclosure
Transfer Conveyor	Transfer Conveyor	Conveyor and Transfer Points (coal from Collector Conveyor to Conveyor No. 2)	1949	500 TPH	Partial Enclosure
No. 2	No. 2	Conveyor and Transfer Points (coal to conveyor No. 2A)	1949	500 TPH	Partial Enclosure
No. 2A	No. 2A	Conveyor and Transfer Points (coal to bunkers)	1949	500 TPH	Partial Enclosure
W1 Coal Bunkers	W1 Coal Bunkers	Coal Bunkers for Unit W1 and W2	1949	500 TPH	WS-Coal Bunker
W1 Coal Feeders	W1 Coal Feeders	Screw feeder for Units W1 and W2 (Bunkers to boilers)	1949	500 TPH	WS-Bunker Feeder
Fly Ash Silo	Fly Ash Silo	Fly Ash Silo (Unit W1 and Unit W2)	1949	500 TPH	N/A
Rotary Unloader 1, Rotary Unloader 2		Fly Ash Rotary Unloaders	N/A	N/A	N/A
Whaul Roads		Material Haul Roads, Fly Ash and Bottom Ash Haul Roads	N/A	N/A	Vacuum Sweeping, Watering Dust Suppresant

1.2. Active R13, R14, and R19 Permits

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
R13-0071	**05/17/1974**
R13-0335	**09/26/1977**
R13-1099	**05/09/1989**
R13-1559	**02/18/1993**
R13-2319A	**11/08/2007**

2.0. General Conditions

2.1. Definitions

2.1.1. All references to the "West Virginia Air Pollution Control Act" or the "Air Pollution Control Act" mean those provisions contained in W.Va. Code §§ 22-5-1 to 22-5-18.

2.1.2. The "Clean Air Act" means those provisions contained in 42 U.S.C. §§ 7401 to 7671q, and regulations promulgated thereunder.

2.1.3. "Secretary" means the Secretary of the Department of Environmental Protection or such other person to whom the Secretary has delegated authority or duties pursuant to W.Va. Code §§ 22-1-6 or 22-1-8 (45CSR§30-2.12.). The Director of the Division of Air Quality is the Secretary's designated representative for the purposes of this permit.

2.1.4. Unless otherwise specified in a permit condition or underlying rule or regulation, all references to a "rolling yearly total" shall mean the sum of the data, values or parameters being measured, monitored, or recorded, at any given time for the previous twelve (12) consecutive calendar months

2.2. Acronyms

CAAA	Clean Air Act Amendments	**NESHAPS**	National Emissions Standards for Hazardous Air Pollutants
CBI	Confidential Business Information		
CEM	Continuous Emission Monitor	**NO_x**	Nitrogen Oxides
CES	Certified Emission Statement	**NSPS**	New Source Performance Standards
C.F.R. *or* CFR	Code of Federal Regulations		
CO	Carbon Monoxide	**PM**	Particulate Matter
C.S.R. *or* CSR	Codes of State Rules	**PM_{10}**	Particulate Matter less than 10µm in diameter
DAQ	Division of Air Quality		
DEP	Department of Environmental Protection	**pph**	Pounds per Hour
		ppm	Parts per Million
FOIA	Freedom of Information Act	**PSD**	Prevention of Significant Deterioration
HAP	Hazardous Air Pollutant		
HON	Hazardous Organic NESHAP	**psi**	Pounds per Square Inch
HP	Horsepower	**SIC**	Standard Industrial Classification
lbs/hr	Pounds per Hour		
LDAR	Leak Detection and Repair	**SIP**	State Implementation Plan
m	Thousand	**SO_2**	Sulfur Dioxide
MACT	Maximum Achievable Control Technology	**TAP**	Toxic Air Pollutant
		TPY	Tons per Year
mm	Million	**TRS**	Total Reduced Sulfur
mmBtu/hr	Million British Thermal Units per Hour	**TSP**	Total Suspended Particulate
		USEPA	United States Environmental Protection Agency
$mmft^3/hr$	Million Cubic Feet Burned per Hour		
		UTM	Universal Transverse Mercator
NA *or* N/A	Not Applicable	**VEE**	Visual Emissions Evaluation
NAAQS	National Ambient Air Quality Standards	**VOC**	Volatile Organic Compounds

2.3. Permit Expiration and Renewal

2.3.1. Permit duration. This permit is issued for a fixed term of five (5) years and shall expire on the date specified on the cover of this permit, except as provided in 45CSR§30-6.3.b. and 45CSR§30-6.3.c.
[45CSR§30-5.1.b.]

2.3.2. A permit renewal application is timely if it is submitted at least six (6) months prior to the date of permit expiration.
[45CSR§30-4.1.a.3.]

2.3.3. Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with 45CSR§30-6.2. and 45CSR§30-4.1.a.3.
[45CSR§30-6.3.b.]

2.3.4. If the Secretary fails to take final action to deny or approve a timely and complete permit application before the end of the term of the previous permit, the permit shall not expire until the renewal permit has been issued or denied, and any permit shield granted for the permit shall continue in effect during that time.
[45CSR§30-6.3.c.]

2.4. Permit Actions

2.4.1. This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
[45CSR§30-5.1.f.3.]

2.5. Reopening for Cause

2.5.1. This permit shall be reopened and revised under any of the following circumstances:

a. Additional applicable requirements under the Clean Air Act or the Secretary's legislative rules become applicable to a major source with a remaining permit term of three (3) or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 45CSR§§30-6.6.a.1.A. or B.

b. Additional requirements (including excess emissions requirements) become applicable to an affected source under Title IV of the Clean Air Act (Acid Deposition Control) or other legislative rules of the Secretary. Upon approval by U.S. EPA, excess emissions offset plans shall be incorporated into the permit.

c. The Secretary or U.S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

d. The Secretary or U.S. EPA determines that the permit must be revised or revoked and reissued to assure compliance with the applicable requirements.

[45CSR§30-6.6.a.]

2.6. Administrative Permit Amendments

2.6.1. The permittee may request an administrative permit amendment as defined in and according to the procedures specified in 45CSR§30-6.4.
[45CSR§30-6.4.]

2.7. Minor Permit Modifications

2.7.1. The permittee may request a minor permit modification as defined in and according to the procedures specified in 45CSR§30-6.5.a.
[45CSR§30-6.5.a.]

2.8. Significant Permit Modification

2.8.1. The permittee may request a significant permit modification, in accordance with 45CSR§30-6.5.b., for permit modifications that do not qualify for minor permit modifications or as administrative amendments.
[45CSR§30-6.5.b.]

2.9. Emissions Trading

2.9.1. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit and that are in accordance with all applicable requirements.
[45CSR§30-5.1.h.]

2.10. Off-Permit Changes

2.10.1. Except as provided below, a facility may make any change in its operations or emissions that is not addressed nor prohibited in its permit and which is not considered to be construction nor modification under any rule promulgated by the Secretary without obtaining an amendment or modification of its permit. Such changes shall be subject to the following requirements and restrictions:

a. The change must meet all applicable requirements and may not violate any existing permit term or condition.

b. The permittee must provide a written notice of the change to the Secretary and to U.S. EPA within two (2) business days following the date of the change. Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.

c. The change shall not qualify for the permit shield.

d. The permittee shall keep records describing all changes made at the source that result in emissions of regulated air pollutants, but not otherwise regulated under the permit, and the emissions resulting from those changes.

e. No permittee may make any change subject to any requirement under Title IV of the Clean Air Act (Acid Deposition Control) pursuant to the provisions of 45CSR§30-5.9.

f. No permittee may make any changes which would require preconstruction review under any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) pursuant to the provisions of 45CSR§30-5.9.

[45CSR§30-5.9]

2.11. Operational Flexibility

2.11.1. The permittee may make changes within the facility as provided by § 502(b)(10) of the Clean Air Act. Such operational flexibility shall be provided in the permit in conformance with the permit application and applicable requirements. No such changes shall be a modification under any rule or any provision of Title I of the Clean Air Act (including 45CSR14 and 45CSR19) promulgated by the Secretary in accordance with Title I of the Clean Air Act and the change shall not result in a level of emissions exceeding the emissions allowable under the permit.

[45CSR§30-5.8]

2.11.2. Before making a change under 45CSR§30-5.8., the permittee shall provide advance written notice to the Secretary and to U.S. EPA, describing the change to be made, the date on which the change will occur, any changes in emissions, and any permit terms and conditions that are affected. The permittee shall thereafter maintain a copy of the notice with the permit, and the Secretary shall place a copy with the permit in the public file. The written notice shall be provided to the Secretary and U.S. EPA at least seven (7) days prior to the date that the change is to be made, except that this period may be shortened or eliminated as necessary for a change that must be implemented more quickly to address unanticipated conditions posing a significant health, safety, or environmental hazard. If less than seven (7) days notice is provided because of a need to respond more quickly to such unanticipated conditions, the permittee shall provide notice to the Secretary and U.S. EPA as soon as possible after learning of the need to make the change.

[45CSR§30-5.8.a.]

2.11.3. The permit shield shall not apply to changes made under 45CSR§30-5.8., except those provided for in 45CSR§30-5.8.d. However, the protection of the permit shield will continue to apply to operations and emissions that are not affected by the change, provided that the permittee complies with the terms and conditions of the permit applicable to such operations and emissions. The permit shield may be reinstated for emissions and operations affected by the change:

a. If subsequent changes cause the facility's operations and emissions to revert to those authorized in the permit and the permittee resumes compliance with the terms and conditions of the permit, or

b. If the permittee obtains final approval of a significant modification to the permit to incorporate the change in the permit.

[45CSR§30-5.8.c.]

2.11.4. "Section 502(b)(10) changes" are changes that contravene an express permit term. Such changes do not include changes that would violate applicable requirements or contravene enforceable permit terms and conditions that are monitoring (including test methods), recordkeeping, reporting, or compliance certification requirements.

[45CSR§30-2.39]

2.12. Reasonably Anticipated Operating Scenarios

2.12.1. The following are terms and conditions for reasonably anticipated operating scenarios identified in this permit.

a. Contemporaneously with making a change from one operating scenario to another, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating and to document the change in reports submitted pursuant to the terms of this permit and 45CSR30.

b. The permit shield shall extend to all terms and conditions under each such operating scenario; and

c. The terms and conditions of each such alternative scenario shall meet all applicable requirements and the requirements of 45CSR30.

[45CSR§30-5.1.i.]

2.13. Duty to Comply

2.13.1. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the West Virginia Code and the Clean Air Act and is grounds for enforcement action by the Secretary or USEPA; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

[45CSR§30-5.1.f.1.]

2.14. Inspection and Entry

2.14.1. The permittee shall allow any authorized representative of the Secretary, upon the presentation of credentials and other documents as may be required by law, to perform the following:

a. At all reasonable times (including all times in which the facility is in operation) enter upon the permittee's premises where a source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;

b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

c. Inspect at reasonable times (including all times in which the facility is in operation) any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit;

d. Sample or monitor at reasonable times substances or parameters to determine compliance with the permit or applicable requirements or ascertain the amounts and types of air pollutants discharged.

[45CSR§30-5.3.b.]

2.15. Schedule of Compliance

2.15.1. For sources subject to a compliance schedule, certified progress reports shall be submitted consistent with the applicable schedule of compliance set forth in this permit and 45CSR§30-4.3.h., but at least every six (6) months, and no greater than once a month, and shall include the following:

a. Dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

b. An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measure adopted.

[45CSR§30-5.3.d.]

2.16. Need to Halt or Reduce Activity not a Defense

2.16.1. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. However, nothing in this paragraph shall be construed as precluding consideration of a need to halt or reduce activity as a mitigating factor in determining penalties for noncompliance if the health, safety, or environmental impacts of halting or reducing operations would be more serious than the impacts of continued operations.

[45CSR§30-5.1.f.2.]

2.17. Emergency

2.17.1. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

[45CSR§30-5.7.a.]

2.17.2. Effect of any emergency. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions of 45CSR§30-5.7.c. are met.

[45CSR§30-5.7.b.]

2.17.3. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;

b. The permitted facility was at the time being properly operated;

c. During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

d. Subject to the requirements of 45CSR§30-5.1.c.3.C.1, the permittee submitted notice of the emergency to the Secretary within one (1) working day of the time when emission limitations were exceeded due to the emergency and made a request for variance, and as applicable rules provide. This notice, report, and variance request fulfills the requirement of 45CSR§30-5.1.c.3.B. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

[45CSR§30-5.7.c.]

2.17.4. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.

[45CSR§30-5.7.d.]

2.17.5. This provision is in addition to any emergency or upset provision contained in any applicable requirement. **[45CSR§30-5.7.e.]**

2.18. Federally-Enforceable Requirements

2.18.1. All terms and conditions in this permit, including any provisions designed to limit a source's potential to emit and excepting those provisions that are specifically designated in the permit as "State-enforceable only", are enforceable by the Secretary, USEPA, and citizens under the Clean Air Act. **[45CSR§30-5.2.a.]**

2.18.2. Those provisions specifically designated in the permit as "State-enforceable only" shall become "Federally-enforceable" requirements upon SIP approval by the USEPA.

2.19. Duty to Provide Information

2.19.1. The permittee shall furnish to the Secretary within a reasonable time any information the Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Secretary copies of records required to be kept by the permittee. For information claimed to be confidential, the permittee shall furnish such records to the Secretary along with a claim of confidentiality in accordance with 45CSR31. If confidential information is to be sent to USEPA, the permittee shall directly provide such information to USEPA along with a claim of confidentiality in accordance with 40 C.F.R. Part 2. **[45CSR§30-5.1.f.5.]**

2.20. Duty to Supplement and Correct Information

2.20.1. Upon becoming aware of a failure to submit any relevant facts or a submittal of incorrect information in any permit application, the permittee shall promptly submit to the Secretary such supplemental facts or corrected information. **[45CSR§30-4.2.]**

2.21. Permit Shield

2.21.1. Compliance with the conditions of this permit shall be deemed compliance with any applicable requirements as of the date of permit issuance provided that such applicable requirements are included and are specifically identified in this permit or the Secretary has determined that other requirements specifically identified are not applicable to the source and this permit includes such a determination or a concise summary thereof. **[45CSR§30-5.6.a.]**

2.21.2. Nothing in this permit shall alter or affect the following:

a. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance; or

b. The applicable requirements of the Code of West Virginia and Title IV of the Clean Air Act (Acid Deposition Control), consistent with § 408 (a) of the Clean Air Act.

c. The authority of the Administrator of U.S. EPA to require information under § 114 of the Clean Air Act or to issue emergency orders under § 303 of the Clean Air Act.

[45CSR§30-5.6.c.]

2.22. Credible Evidence

2.22.1. Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee including but not limited to any challenge to the credible evidence rule in the context of any future proceeding.

[45CSR§30-5.3.e.3.B. and 45CSR38]

2.23. Severability

2.23.1. The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any circumstance is held invalid by a court of competent jurisdiction, the remaining permit terms and conditions or their application to other circumstances shall remain in full force and effect.

[45CSR§30-5.1.e.]

2.24. Property Rights

2.24.1. This permit does not convey any property rights of any sort or any exclusive privilege.

[45CSR§30-5.1.f.4]

2.25. Acid Deposition Control

2.25.1. Emissions shall not exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act (Acid Deposition Control) or rules of the Secretary promulgated thereunder.

a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid deposition control program, provided that such increases do not require a permit revision under any other applicable requirement.

b. No limit shall be placed on the number of allowances held by the source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement.

c. Any such allowance shall be accounted for according to the procedures established in rules promulgated under Title IV of the Clean Air Act.

[45CSR§30-5.1.d.]

2.25.2. Where applicable requirements of the Clean Air Act are more stringent than any applicable requirement of regulations promulgated under Title IV of the Clean Air Act (Acid Deposition Control), both provisions shall be incorporated into the permit and shall be enforceable by the Secretary and U. S. EPA.

[45CSR§30-5.1.a.2.]

3.0. Facility-Wide Requirements

3.1. Limitations and Standards

3.1.1. **Open burning.** The open burning of refuse by any person, firm, corporation, association or public agency is prohibited except as noted in 45CSR§6-3.1.
[45CSR§6-3.1.]

3.1.2. **Open burning exemptions.** The exemptions listed in 45CSR§6-3.1 are subject to the following stipulation: Upon notification by the Secretary, no person shall cause, suffer, allow or permit any form of open burning during existing or predicted periods of atmospheric stagnation. Notification shall be made by such means as the Secretary may deem necessary and feasible.
[45CSR§6-3.2.]

3.1.3. **Asbestos.** The permittee is responsible for thoroughly inspecting the facility, or part of the facility, prior to commencement of demolition or renovation for the presence of asbestos and complying with 40 C.F.R. § 61.145, 40 C.F.R. § 61.148, and 40 C.F.R. § 61.150. The permittee must notify the Secretary at least ten (10) working days prior to the commencement of any asbestos removal on the forms prescribed by the Secretary if the permittee is subject to the notification requirements of 40 C.F.R. § 61.145(b)(3)(i). The USEPA, the Division of Waste Management and the Bureau for Public Health - Environmental Health require a copy of this notice to be sent to them.
[40 C.F.R. 61 and 45CSR15]

3.1.4. **Odor.** No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor at any location occupied by the public.
[45CSR§4-3.1. State-Enforceable only.]

3.1.5. **Standby plan for reducing emissions.** When requested by the Secretary, the permittee shall prepare standby plans for reducing the emissions of air pollutants in accordance with the objectives set forth in Tables I, II, and III of 45CSR11.
[45CSR§11-5.2.]

3.1.6. **Emission inventory.** The permittee is responsible for submitting, on an annual basis, an emission inventory in accordance with the submittal requirements of the Division of Air Quality.
[W.Va. Code § 22-5-4(a)(14)]

3.1.7. **Ozone-depleting substances.** For those facilities performing maintenance, service, repair or disposal of appliances, the permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 C.F.R. Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:

a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the prohibitions and required practices pursuant to 40 C.F.R. §§ 82.154 and 82.156.

b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 C.F.R. § 82.158.

c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 C.F.R. § 82.161.

[40 C.F.R. 82, Subpart F]

3.1.8. **Risk Management Plan.** Should this stationary source, as defined in 40 C.F.R. § 68.3, become subject to Part 68, then the owner or operator shall submit a risk management plan (RMP) by the date specified in 40 C.F.R. § 68.10 and shall certify compliance with the requirements of Part 68 as part of the annual compliance certification as required by 40 C.F.R. Part 70 or 71.
[40 C.F.R. 68]

3.1.9. **Fugitive Particulate Matter Control.** No person shall cause, suffer, allow, or permit any source of fugitive particulate matter to operate that is not equipped with a fugitive particulate matter control system. This system shall be operated and maintained in such a manner as to minimize the emission of fugitive particulate matter. Sources of fugitive particulate matter associated with fuel burning units shall include, but not be limited to, the following:

a. Stockpiling of ash or fuel either in the open or in enclosures such as silos;

b. Transport of ash in vehicles or on conveying systems, to include spillage, tracking, or blowing of particulate matter from or by such vehicles or equipment; and

c. Ash or fuel handling systems and ash disposal areas.
[45CSR§2-5.1.]

3.1.10. **NO_X Budget Trading Program.** The permittee shall comply with the standard requirements set forth in the attached NO_X Budget Permit Application (see Appendix A) and the NO_X Budget Permit requirements set forth in 45CSR26 for each NO_X budget source. The complete NO_X Budget Permit Application shall be the NO_X Budget Permit portion of the Title V permit administered in accordance with 45CSR30.
[45CSR§§26-6.1.b. and 20.1.]

a. The NO_X Budget portion of this permit is deemed to incorporate automatically the definitions of terms under 45CSR§26-2 and, upon recordation by the Administrator under 45CSR§26-50 through 45CSR§26-57 or 45CSR§26-60 through 45CSR§26-62, every allocation, transfer or deduction of a NO_X allowance to or from the compliance accounts of the NO_X Budget units covered by the permit or the overdraft account of the NO_X budget source covered by the permit.
[45CSR§26-23.2.]

b. Except as provided in 45CSR§26-23.2, the Secretary will revise the NO_X Budget portion of this permit, as necessary, in accordance with the operating permit revision requirements set forth in 45CSR30.
[45CSR§26-24.1.]

3.1.11. **CAMR Mercury Budget Trading Program.** The permittee shall comply with the standard requirements set forth in an Hg Budget Permit Application and the Hg Budget Permit requirements set forth in 45CSR37 for each Hg Budget source. The complete Hg Budget Permit Application shall be the CAMR Permit portion of the Title V permit administered in accordance with 45CSR30.
[45CSR§§37-6.1.b. and 20.1. State enforceable only]

a. The CAMR Permit portion of this permit is deemed to incorporate automatically the definitions of terms under 45CSR§37-2 and, upon recordation by the Administrator under sections 51 through 57, or 60 through 62 of 45CSR37, every allocation, transfer or deduction of an Hg allowance to or from the compliance account of the Hg Budget source covered by the permit.
[45CSR§37-23.2. State enforceable only.]

b. Except as provided in 45CSR§37-23.2, the Secretary will revise the CAMR Permit portion of this permit, as necessary, in accordance with the operating permit revision requirements set forth in 45CSR30. **[45CSR§37-24.1. State enforceable only.]**

3.1.12. **CAIR NO_x Annual Trading Program.** The permittee shall comply with the standard requirements set forth in the attached CAIR Permit Application (see Appendix B) and the CAIR permit requirements set forth in 45CSR39 for each CAIR NO_x Annual source. The complete CAIR Permit Application shall be the CAIR Permit portion of the Title V permit administered in accordance with 45CSR30. **[45CSR§§39-6.1.b. and 20.1.]**

a. The CAIR Permit portion of this permit is deemed to incorporate automatically the definitions of terms under 45CSR§39-2 and, upon recordation by the Administrator under sections 51 through 57, or 60 through 62 of 45CSR39, every allocation, transfer, or deduction of a CAIR NO_x Annual allowance to or from the compliance account of the CAIR NO_x Annual source covered by the permit. **[45CSR§39-23.2.]**

b. Except as provided in 45CSR§39-23.2, the Secretary will revise the CAIR Permit portion of this permit, as necessary, in accordance with the operating permit revision requirements set forth in 45CSR30. **[45CSR§39-24.1.]**

3.1.13. **CAIR NO_x Ozone Season Trading Program.** The permittee shall comply with the standard requirements set forth in the attached CAIR Permit Application (see Appendix B) and the CAIR permit requirements set forth in 45CSR40 for each CAIR NO_x Ozone Season source. The complete CAIR Permit Application shall be the CAIR Permit portion of the Title V permit administered in accordance with 45CSR30. **[45CSR§§40-6.1.b. and 20.1.]**

a. The CAIR Permit portion of this permit is deemed to incorporate automatically the definitions of terms under 45CSR§40-2 and, upon recordation by the Administrator under sections 51 through 57, or 60 through 62 of 45CSR40, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from the compliance account of the CAIR NO_x Ozone Season source covered by the permit. **[45CSR§40-23.2.]**

b. Except as provided in 45CSR§40-23.2, the Secretary will revise the CAIR Permit portion of this permit, as necessary, in accordance with the operating permit revision requirements set forth in 45CSR30. **[45CSR§40-24.1.]**

3.1.14. **CAIR SO_2 Trading Program.** The permittee shall comply with the standard requirements set forth in the attached CAIR Permit Application (see Appendix B) and the CAIR permit requirements set forth in 45CSR41 for each CAIR SO_2 source. The complete CAIR Permit Application shall be the CAIR Permit portion of the Title V permit administered in accordance with 45CSR30. **[45CSR§§41-6.1.b. and 20.1.]**

a. The CAIR Permit portion of this permit is deemed to incorporate automatically the definitions of terms under 45CSR§41-2 and, upon recordation by the Administrator under sections 51 through 57, or 60 through 62 of 45CSR41, every allocation, transfer, or deduction of a CAIR SO_2 allowance to or from the compliance account of the CAIR SO_2 source covered by the permit. **[45CSR§41-23.2.]**

b. Except as provided in 45CSR§41-23.2, the Secretary will revise the CAIR Permit portion of this permit, as necessary, in accordance with the operating permit revision requirements set forth in 45CSR30. **[45CSR§41-24.1.]**

3.2. Monitoring Requirements

3.2.1. None.

3.3. Testing Requirements

3.3.1. **Stack testing.** As per provisions set forth in this permit or as otherwise required by the Secretary, in accordance with the West Virginia Code, underlying regulations, permits and orders, the permittee shall conduct test(s) to determine compliance with the emission limitations set forth in this permit and/or established or set forth in underlying documents. The Secretary, or his duly authorized representative, may at his option witness or conduct such test(s). Should the Secretary exercise his option to conduct such test(s), the operator shall provide all necessary sampling connections and sampling ports to be located in such manner as the Secretary may require, power for test equipment and the required safety equipment, such as scaffolding, railings and ladders, to comply with generally accepted good safety practices. Such tests shall be conducted in accordance with the methods and procedures set forth in this permit or as otherwise approved or specified by the Secretary in accordance with the following:

a. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with 40 C.F.R. Parts 60, 61, and 63, if applicable, in accordance with the Secretary's delegated authority and any established equivalency determination methods which are applicable.

b. The Secretary may on a source-specific basis approve or specify additional testing or alternative testing to the test methods specified in the permit for demonstrating compliance with applicable requirements which do not involve federal delegation. In specifying or approving such alternative testing to the test methods, the Secretary, to the extent possible, shall utilize the same equivalency criteria as would be used in approving such changes under Section 3.3.1.a. of this permit.

c. All periodic tests to determine mass emission limits from or air pollutant concentrations in discharge stacks and such other tests as specified in this permit shall be conducted in accordance with an approved test protocol. Unless previously approved, such protocols shall be submitted to the Secretary in writing at least thirty (30) days prior to any testing and shall contain the information set forth by the Secretary. In addition, the permittee shall notify the Secretary at least fifteen (15) days prior to any testing so the Secretary may have the opportunity to observe such tests. This notification shall include the actual date and time during which the test will be conducted and, if appropriate, verification that the tests will fully conform to a referenced protocol previously approved by the Secretary.

[WV Code § 22-5-4(a)(15), 45CSR2, 45CSR10, and 45CSR13]

3.4. Recordkeeping Requirements

3.4.1. **Monitoring information.** The permittee shall keep records of monitoring information that include the following:

a. The date, place as defined in this permit and time of sampling or measurements;

b. The date(s) analyses were performed;

c. The company or entity that performed the analyses;

d. The analytical techniques or methods used;

e. The results of the analyses; and

f. The operating conditions existing at the time of sampling or measurement.
[45CSR§30-5.1.c.2.A., 45CSR13 - Permit R13-2319, Condition 4.4.1.]

3.4.2. **Retention of records.** The permittee shall retain records of all required monitoring data and support information for a period of at least five (5) years from the date of monitoring sample, measurement, report, application, or record creation date. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Where appropriate, records may be maintained in computerized form in lieu of the above records.
[45CSR§30-5.1.c.2.B.]

3.4.3. **Odors.** For the purposes of 45CSR4, the permittee shall maintain a record of all odor complaints received, any investigation performed in response to such a complaint, and any responsive action(s) taken.
[45CSR§30-5.1.c. State-Enforceable only.]

3.4.4. The permittee shall maintain records indicating the use of any dust suppressants or any other suitable dust control measures applied at the facility. The permittee shall also inspect all fugitive dust control systems weekly from May 1 through September 30 and monthly from October 1 through April 30 to ensure that they are operated and maintained in conformance with their designs. The permittee shall maintain records of all scheduled and non-scheduled maintenance and shall state any maintenance or corrective actions taken as a result of the weekly and/or monthly inspections, the times the fugitive dust control system(s) were inoperable and any corrective actions taken.
[45CSR§30-5.1.c.]

3.5. Reporting Requirements

3.5.1. **Responsible official.** Any application form, report, or compliance certification required by this permit to be submitted to the DAQ and/or USEPA shall contain a certification by the responsible official that states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.
[45CSR§30-4.4. *and* 5.1.c.3.D.]

3.5.2. A permittee may request confidential treatment for the submission of reporting required under 45CSR§30-5.1.c.3. pursuant to the limitations and procedures of W.Va. Code § 22-5-10 and 45CSR31.
[45CSR§30-5.1.c.3.E.]

3.5.3. All notices, requests, demands, submissions and other communications required or permitted to be made to the Secretary of DEP and/or USEPA shall be made in writing and shall be deemed to have been duly given when delivered by hand, mailed first class, or by private carrier with postage prepaid to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director
WVDEP
Division of Air Quality
601 57th Street SE
Charleston, WV 25304
Phone: 304/926-0475
FAX: 304/926-0478

If to the US EPA:

Associate Director
Office of Enforcement and Permits Review
(3AP12)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

3.5.4. **Certified emissions statement.** The permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. **[45CSR§30-8.]**

3.5.5. **Compliance certification.** The permittee shall certify compliance with the conditions of this permit on the forms provided by the DAQ. In addition to the annual compliance certification, the permittee may be required to submit certifications more frequently under an applicable requirement of this permit. The annual certification shall be submitted to the DAQ and USEPA on or before March 15 of each year, and shall certify compliance for the period ending December 31. The permittee shall maintain a copy of the certification on site for five (5) years from submittal of the certification. **[45CSR§30-5.3.e.]**

3.5.6. **Semi-annual monitoring reports.** The permittee shall submit reports of any required monitoring on or before September 15 for the reporting period January 1 to June 30 and on or before March 15 for the reporting period July 1 to December 31. All instances of deviation from permit requirements must be clearly identified in such reports. All required reports must be certified by a responsible official consistent with 45CSR§30-4.4. **[45CSR§30-5.1.c.3.A.]**

3.5.7. **Deviations.**

a. In addition to monitoring reports required by this permit, the permittee shall promptly submit supplemental reports and notices in accordance with the following:

1. Any deviation resulting from an emergency or upset condition, as defined in 45CSR§30-5.7., shall be reported by telephone or telefax within one (1) working day of the date on which the permittee becomes aware of the deviation, if the permittee desires to assert the affirmative defense in accordance with 45CSR§30-5.7. A written report of such deviation, which shall include the probable cause of such deviations, and any corrective actions or preventative measures taken, shall be submitted and certified by a responsible official within ten (10) days of the deviation.

2. Any deviation that poses an imminent and substantial danger to public health, safety, or the environment shall be reported to the Secretary immediately by telephone or telefax. A written report of such deviation, which shall include the probable cause of such deviation, and any corrective actions or preventative measures taken, shall be submitted by the responsible official within ten (10) days of the deviation.

3. Deviations for which more frequent reporting is required under this permit shall be reported on the more frequent basis.

4. All reports of deviations shall identify the probable cause of the deviation and any corrective actions or preventative measures taken.
[45CSR§30-5.1.c.3.C.]

b. The permittee shall, in the reporting of deviations from permit requirements, including those attributable to upset conditions as defined in this permit, report the probable cause of such deviations and any corrective actions or preventive measures taken in accordance with any rules of the Secretary.
[45CSR§30-5.1.c.3.B.]

3.5.8. **New applicable requirements.** If any applicable requirement is promulgated during the term of this permit, the permittee will meet such requirements on a timely basis, or in accordance with a more detailed schedule if required by the applicable requirement.
[45CSR§30-4.3.h.1.B.]

3.6. Compliance Plan

3.6.1. None.

3.7. Permit Shield

3.7.1. The permittee is hereby granted a permit shield in accordance with 45CSR§30-5.6. The permit shield applies provided the permittee operates in accordance with the information contained within this permit.

3.7.2. The following requirements specifically identified are not applicable to the source based on the determinations set forth below. The permit shield shall apply to the following requirements provided the conditions of the determinations are met.

45CSR10	Pleasants Power Station does not have an SO_2 weight emission standard.
45CSR§10-8	The auxiliary boilers for both the Pleasants and Willow Island Stations burn natural gas and /or distillate oil and are exempt in accordance with 45CSR§10-10.3.
40 CFR Part 60, Subpart Da	Pleasants Unit 1 and Unit 2 Boilers commenced construction prior to September 18, 1978.
40 CFR Part 60, Subpart Db	Pleasants Auxiliary Boilers were constructed prior to June 19, 1984.
40 CFR Part 63, Subpart Q	Pleasants Cooling Towers were constructed and operating prior to September 8, 1994.
40 CFR Part 60, Subpart D	Willow Island Main Boilers were constructed prior to August 17, 1971.
40 CFR Part 60, Subpart Dc	Willow Island Auxiliary Boilers commenced construction prior to June 9, 1989.
40 CFR Part 60, Subpart K, Ka	Pleasants and Willow Island do not have any tanks storing petroleum liquids that were constructed after March 8, 1974 and exceed 40,000 gallons in capacity.

40 CFR Part 60, Subpart Kb	Pleasants and Willow Island do not have any tanks storing volatile organic liquids that exceed 75 m^3 in capacity.
40 CFR Part 60, Subpart OOO	Limestone equipment was in operation prior to August 31, 1983.
40 CFR Part 63, Subpart ZZZZ	Exempt from Reciprocating Internal Combustion Engines MACT and from initial notification in accordance with 40 CFR § 63.6590(b)(3)

4.0. Source-Specific Requirements [Pleasants Boilers (*StackP1, StackP2, Aux Blr Stk P1*)]

4.1. Limitations and Standards

4.1.1. Visible Emissions from each stack shall not exceed ten (10) percent opacity based on a six minute block average.
[45CSR§2-3.1.]

4.1.2. Particulate matter emissions from each stack liner *(StackP1 & StackP2*) shall not exceed 312.25 lb/hr.
[45CSR§2-4.1.a.]

4.1.3. Particulate matter emissions from the auxiliary boiler stack *(Aux Blr Stk P1)* shall not exceed 39.96 lb/hr.
[45CSR§2-4.1.b.]

4.1.4. The addition of sulfur oxides to a combustion unit exit gas stream for the purpose of improving emissions control equipment is prohibited unless written approval for such addition is provided by the Secretary.
[45CSR§2-4.4.]

4.1.5. The visible emission standards set forth in Section 4.1.1. of this permit shall apply at all times except in periods of start-ups, shutdowns and malfunctions.
[45CSR§2-9.1.]

4.1.6. At all times, including periods of start-ups, shutdowns and malfunctions, owners and operators shall, to the extent practicable, maintain and operate any fuel burning unit(s) including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, visible emission observations, review of operating and maintenance procedures and inspection of the source.
[45CSR§2-9.2., 45CSR16, 40 C.F.R. § 60.11(d)]

4.1.7. **Emergency Operating Scenarios.** In the event of an unavoidable shortage of fuel having characteristics or specifications necessary to comply with the visible emission standard set forth in permit condition 4.1.1. of this permit, or any emergency situation or condition creating a threat to public safety or welfare, the Secretary may grant an exemption to the otherwise applicable visible emission standards for a period not to exceed fifteen (15) days, provided that visible emissions during that period do not exceed a maximum six (6) minute average of thirty (30) percent and that a reasonable demonstration is made by the owner or operator that the weight emission standards under permit conditions 4.1.2. and/or 4.1.3. of this permit, will not be exceeded during the exemption period.
[45CSR§2-10.1.]

4.1.8. In the event a fuel burning unit employing a flue gas desulphurization system must by-pass such system because of necessary planned or unplanned maintenance, visible emissions may not exceed twenty percent (20%) opacity during such period of maintenance. The Director may require advance notice of necessary planned maintenance, including a description of the necessity of the maintenance activity and its expected duration and may limit the duration of the variance or the amount of the excess opacity exception herein allowed. The Director shall be notified of unplanned maintenance and may limit the duration of the variance or the amount of excess opacity exception allowed during unplanned maintenance.
[45CSR§2-10.2.]

4.1.9. Nitrogen oxides emissions, expressed as NO_2, from each stack liner (*StackP1 & StackP2*) shall not exceed 0.70 lb/mmBtu.
[45CSR16, 40 C.F.R. § 60.44(a)(3).]

4.1.10. Sulfur dioxide emissions from each stack liner (*StackP1 & StackP2*) shall not exceed 1.2 lb/mmBtu.
[45CSR16, 40 C.F.R. § 60.43(a)(2).]

4.1.11. Sulfur dioxide emissions from the auxiliary boiler stack (*Aux Blr Stk P1)* shall not exceed 1376.4 lb/hr.
[45CSR§10-3.1.e.]

4.1.12. Unit P1 and Unit P2 are Phase II Acid Rain affected units under 45CSR33, as defined by 40 C.F.R § 72.6, and as such are required to meet the requirements of 40 C.F.R. Parts 72, 73, 74, 75, 76, 77 and 78. These requirements include:

a. Hold an Acid Rain permit (Acid Rain Permit is included in Appendix D);

b. Hold allowances, as of the allowance transfer deadline, in the unit's compliance sub-account of not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit;

c. Comply with the applicable Acid Rain emissions for sulfur dioxide;

d. Comply with the applicable Acid Rain emissions for nitrogen oxides;

e. Comply with the monitoring requirements of 40 C.F.R. Part 75 and section 407 of the Clean Air Act of 1990 and regulations implementing section 407 of the Act;

f. Submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 C.F.R. Part 72, Subpart I and 40 C.F.R. Part 75.

[45CSR33, 40 C.F.R. Parts 72, 73, 74, 75, 76, 77, 78.]

4.1.13. The Fuel Oil to be fired in the two Auxiliary Boilers (Aux Blr PA & Aux Blr PB) shall not exceed a maximum sulfur content of 0.5% and an average sulfur content of 0.3%.
[45CSR13 - Permit No. R13-0335 Specific Conditions]

4.1.14. The coal to be fired in the two main boilers (UnitP1 & UnitP2) shall not exceed a maximum ash content of 20 percent.
[45CSR13 - Permit No. R13-0071 Application "Affected Source Sheet" pages 4 and 6 Item 2.A.(4) as modified with Allegheny Power letter to WVAPCC dated September 21, 1977 RE: SO_2 removal system]

4.2. Monitoring Requirements

4.2.1. Compliance with the visible emission requirements for *StackP1 and StackP2,* which are separate liners within a common stack, and *Aux Blr Stk P1* shall be determined as outlined in sections I.A. and I.B., respectively of the "45CSR2 Monitoring Plan" submitted/ revised on December 4, 2001/December 7, 2007 and which is attached in Appendix C of this permit.
[45CSR§§2-3.2. & 8.2.]

4.2.2. The Electrostatic Precipitator (ESP) secondary voltage and secondary current shall be measured continuously using a voltmeter and ammeter integrated into the ESP Unit, and both shall be recorded no less than four times

per hour, equally spaced over each hour. The total power (P) input to the ESP is the sum of the products of secondary voltage (V) and current (I) in each field and shall be calculated and recorded in accordance with Section 4.4.4. of this permit.
[45CSR§30-5.1.c., 40 C.F.R. § 64.3(b)(1), and 40 C.F.R. § 64.3(b)(4)(ii)]

4.2.3. The permittee shall calibrate, maintain, and operate the instrumentation used to measure the secondary voltage and secondary current in Section 4.2.2. of this permit in accordance with manufacturer's specifications.
[45CSR§30-5.1.c. and 40 C.F.R. § 64.3(b)(3)]

4.2.4. The owner or operator shall install, calibrate, certify, operate, and maintain continuous monitoring systems that measure all SO_2, NO_x, and CO_2 emissions from each stack liner, *StackP1* and *StackP2*, as specified in 40 C.F.R. Part 60, Subpart D and in 40 C.F.R. Part 75.
[45CSR16, 45CSR33, 40 C.F.R. § 75.10, 40 C.F.R. § 60.45]

4.2.5. Compliance with the allowable sulfur dioxide emission limitations from fuel burning units shall be based on a continuous twenty-four (24) hour averaging time. Emissions shall not be allowed to exceed the weight emissions standards for sulfur dioxide as set forth in Section 4.1.11. of this permit, except during one (1) continuous twenty-four (24) hour period in each calendar month. During this one (1) continuous twenty-four hour period, emissions shall not be allowed to exceed such weight emission standards by more than ten percent (10%) without causing a violation of 45CSR10. A continuous twenty-four (24) hour period is defined as one (1) calendar day.
[45CSR§10-3.8. *(Aux Blr Stk P1)*]

4.2.6. The CAM related testing and CAM plan implementation shall be conducted according to the following schedule:

1. Allegheny Energy shall submit a CAM testing protocol to the Department within 45 days of the issuance of this permit.

2. Allegheny Energy shall complete the CAM testing within 120 days of the issuance of this permit.

3. Testing results, including the excursion limits, and the generated opacity to particulate matter correlation curve shall be submitted to the Department within 45 days after completion of testing.

4. Within 60 days of submittal of the testing results and the generated opacity to particulate matter correlation curve, Allegheny Energy shall begin implementation of the CAM plan.

[45CSR§30-5.1.c. and 40 C.F.R. § 64.4(e)]

4.3. Testing Requirements.

4.3.1. The owner or operator shall conduct, or have conducted, tests to determine the compliance of Unit P1 and Unit P2 with the particulate matter mass emission limitations. Such tests shall be conducted in accordance with the appropriate method set forth in 45CSR2 Appendix - Compliance Test Procedures for 45CSR2 or other equivalent EPA approved method approved by the Secretary. Such tests shall be conducted in accordance with the schedule set forth in the following table.

Pleasants Units P1 and P2 were last tested in 2007 and will be retested in accordance with the testing cycles of 45CSR2A.

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Current Test Frequency	Test Results	Retesting Frequency
Annual	after three successive tests indicate mass emission rates ≤50% of weight emission standard	Once/3 years
Annual	after two successive tests indicate mass emission rates <80 % of weight emission standard	Once/2 years
Annual	any tests indicates a mass emission rate ≥80% of weight emission standard	Annual
Once/2 years	after two successive tests indicate mass emission rates ≤50% of weight emission standard	Once/3 years
Once/2 years	any tests indicates a mass emission rate <80 % of weight emission standard	Once/2 years
Once/2 years	any tests indicates a mass emission rate ≥80% of weight emission standard	Annual
Once/3 years	any tests indicates a mass emission rate ≤50% of weight emission standard	Once/3 years
Once/3 years	any test indicates mass emission rates between 50% and 80 % of weight emission standard	Once/2 years
Once/3 years	any test indicates a mass emission rate ≥80% of weight emission standard	Annual

[45CSR§2-8.1., 45CSR§2A-5.2.]

4.4. Recordkeeping Requirements

4.4.1. The owner or operator of a fuel burning unit(s) shall maintain on-site all records of monitored data established in the monitoring plan pursuant to Section 4.2.1. of this permit. Such records shall be made available to the Director or his duly authorized representative upon request. Such records shall be retained on-site for a minimum of five years.
[45CSR§2-8.3.a.]

4.4.2. The owner or operator shall maintain records of the operating schedule and the quantity and quality of fuel consumed in each fuel burning unit in a manner to be established by the Director. Such records are to be maintained on-site and made available to the Director or his duly authorized representative upon request.
[45CSR§2-8.3.c.]

4.4.3. Compliance with the auxiliary boiler stack (*Aux Blr Stk1*) particulate matter mass emission requirements of permit condition 4.1.3. and the operating and fuel usage requirements of permit conditions 4.4.2., and 4.1.13. shall be demonstrated as outlined in section II.A. of the "45CSR2 Monitoring Plan" submitted/revised on December 4, 2001/December 7, 2007 and which is attached in Appendix C of this permit.
[45CSR§§2-8.3.c., 8.4.a. & 8.4.a.1.]

4.4.4. The total secondary Electrostatic Precipitator power input (in kW) shall be calculated and recorded no less than four times per hour, equally spaced over each hour, in an electronic data acquisition system and averaged on a 3 hour basis.
[45CSR§30-5.1.c. and 40 C.F.R. 64.9(b)]

4.5. Reporting Requirements

4.5.1. Each owner or operator required to install a continuous monitoring system shall submit a written report of excess emissions as defined in 40 C.F.R. Part 60, Subpart D, to the Administrator and the Secretary for every calendar quarter. All quarterly reports shall be postmarked by the 30th day of the month following the end of each calendar quarter and shall include the following information:

a. The magnitude of excess emissions computed in accordance with 40 C.F.R. § 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each period of excess emissions.

b. Specific identification of each period of excess emissions, that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.

c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.

d. When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

[45CFR16, 40 C.F.R. §§ 60.7(c)(1)-(4)]

4.5.2. The designated representative shall electronically report SO_2, NO_x, and CO_2 emissions data and information as specified in 40 C.F.R. § 75.64 to the Administrator of USEPA, quarterly. Each electronic report must be submitted within thirty (30) days following the end of each calendar quarter.

[45CSR33, 40 C.F.R. § 75.64]

4.5.3. The owner or operator shall submit a periodic exception report to the Director, in a manner and at a frequency to be established by the Director. Such exception report shall provide details of all excursions outside the range of measured emissions or monitored parameters established in an approved monitoring plan, and shall include, but not be limited to, the time of the excursion, the magnitude of the excursion, the duration of the excursion, the cause of the excursion and the corrective action taken. Compliance with the periodic exception reporting shall be demonstrated as outlined in section II.C. of the "45CSR2 Monitoring Plan" submitted/revised on December 4, 2001/December 7, 2007 and which is attached in Appendix C of this permit.

45CSR§2-8.3.b.]

4.5.4. Excess opacity periods, resulting from any malfunction, meeting the following conditions may be reported on a quarterly basis unless otherwise required by the Secretary:

a. The excess opacity period does not exceed thirty (30) minutes within any twenty-four (24) hour period; and

b. Excess opacity does not exceed forty percent (40%).

[45CSR§2-9.3.a.]

4.5.5. Except as provided in permit condition 4.5.4. above, the owner or operator shall report to the Secretary by telephone, telefax, or e-mail any malfunction of Unit P1 or Unit P2 or their associated air pollution control equipment, which results in any excess particulate matter or excess opacity, by the end of the next business day after becoming aware of such condition. The owner or operator shall file a certified written report concerning the malfunction with the Secretary within thirty (30) days providing the following information:

a. A detailed explanation of the factors involved or causes of the malfunction;

b. The date, and time of duration (with starting and ending times) of the period of excess emissions;

c. An estimate of the mass of excess emissions discharged during the malfunction period;

d. The maximum opacity measured or observed during the malfunction;

e. Immediate remedial actions taken at the time of the malfunction to correct or mitigate the effects of the malfunction; and

f. A detailed explanation of the corrective measures or program that will be implemented to prevent a recurrence of the malfunction and a schedule for such implementation.

[45CSR§2-9.3.b.]

4.6. Compliance Plan

4.6.1. None.

5.0. Source-Specific Requirements [Pleasants Material Handling Sources]

5.1. Limitations and Standards

5.1.1. Visible Emissions from coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal shall not exceed twenty (20) percent opacity except during periods of startup, shutdown, or malfunction.
[45CSR16, 40 C.F.R. § 60.11(c), 40 C.F.R. § 60.252(c) {*Conveyors and their Transfer Points (C-1, BF-1A, BF-1B, BPC-1, BPC-2, C-2, C-4A, C-4B, C-5A, C-5B); Feeders (VF-2A, VF-2B); Breakers (CB-A, CB-B); Crushers (Pcru01, Pcru02)*}]

5.1.2. At all times, including periods of startup, shutdown, and malfunction, any affected facility including associated air pollution control equipment shall, to the extent practicable, be maintained and operated in a manner consistent with good air pollution control practice for minimizing emissions. Determination that acceptable operating and maintenance procedures are being used, will be based on information available to the Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
[40 C.F.R. § 60.11(d) {*Conveyors and their Transfer Points (C-1, BF-1A, BF-1B, BPC-1, BPC-2, C-2, C-4A, C-4B, C-5A, C-5B); Feeders (VF-2A, VF-2B); Breakers (CB-A, CB-B0; Crushers (Pcru01, Pcru02)*}]

5.1.3. The particulate emission rate from the bin vents controlling the sludge stabilization lime silos, SSLS-A and SSLS-B shall not exceed the following limitations:

Emission Point ID DC-SSLSA (BH1e in R13-1559)	0.21 lb/hr
Emission Point ID DC-SSLSB (BH2e in R13-1559)	0.21 lb/hr

[45CSR13 - Permit No. R13-1559 Specific Requirement (A)(1)]

5.1.4. All conveyors and transfer points serving sludge stabilization silos, SSLS-A and SSLS-B, shall be fully enclosed such that fugitive particulate emissions are minimized.
[45CSR13 - Permit No. R13-1559 Specific Requirement (A)(2)]

5.2. Monitoring Requirements

5.2.1. The permittee shall conduct visible emission evaluations as follows for *Conveyors and their Transfer Points (C-1, BF-1A, BF-1B, BPC-1, BPC-2, C-2, C-4A, C-4B, C-5A, C-5B); Feeders (VF-2A, VF-2B); Breakers (CB-A, CB-B);Crushers (Pcru01, Pcru02):*

a. A visible emissions evaluation shall be conducted for each affected facility at least once every consecutive 12-month period in accordance with 40 C.F.R. Part 60 Appendix A, Method 9, or as provided in 40 C.F.R. § 60.11. This annual evaluation shall consist of a minimum of 24 consecutive observations for each affected facility.
[45CSR16, 40 C.F.R. §§ 60.11(b) & (e)(1), and 40 C.F.R. § 60.254(b)(2)]

b. Each emissions unit with a visible emissions limit contained in this permit section shall be observed visually by a trained Method 22 observer at least each calendar week during periods of normal facility operation for a sufficient time interval to determine if the unit has any visible emissions. If visible emissions from any of the emissions units are observed during these weekly observations, or at any other time, that appear to exceed 50 percent of the allowable visible emission requirement for the emission unit, visible emissions evaluations in accordance with 40 C.F.R. Part 60 Appendix A, Method 9 shall be conducted as soon as practicable, but no later than one (1) month from the time of the observation. A

Method 9 evaluation shall not be required under this permit condition (5.2.1.b.) if the visible emissions condition is corrected in a timely manner; the emissions unit is operating at normal operating conditions; and, the cause and corrective measures taken are recorded.
[45CSR§30-5.1.c.]

c. If the visible emissions evaluation indicates visible emissions in excess of 50 percent of the allowable visible emissions requirement for a given emission unit, a visible emissions evaluation shall be performed for that unit at least once every consecutive 14-day period in accordance with 40 C.F.R. Part 60 Appendix A, Method 9. If subsequent visible emissions evaluations indicate visible emissions less than or equal to 50 percent of the allowable visible emissions requirement for the emission unit for 3 consecutive evaluation periods, the emission unit may comply with the visible emissions testing requirements of permit condition 5.2.1.b. above, in lieu of those established in this condition
[45CSR§30-5.1.c.]

5.3. Testing Requirements

5.3.1. None.

5.4. Recordkeeping Requirements

5.4.1. A record of each visible emissions observation shall be maintained on site, including any data required by 40 C.F.R. Part 60 Appendix A, Method 9. The record shall include, at a minimum, the date, time, name of the emission unit, the applicable visible emissions requirement, the results of the observation, and the name of the observer. Records shall state any maintenance or corrective actions taken as a result of the weekly inspections, and the times the fugitive dust control system(s) are inoperable and any corrective actions taken.
[45CSR§30-5.1.c.]

5.4.2. For the Lime Storage Silo Bin Vents, the permittee shall keep records of the visible emissions observations required in Section 5.2.1. of this permit. Proof of compliance with no visible emissions as performed per condition 5.2.1. will be considered proof of compliance for the Regulation 13 permit (R13-1559) limit of 0.21 lb/hr.
[45CSR§30-5.1.c.]

5.5. Reporting Requirements

5.5.1. None.

5.6. Compliance Plan

5.6.1. None.

6.0. Source-Specific Requirements [Pleasants Gypsum Production Facility]

6.1. Limitations and Standards

6.1.1. **Production Limits.** The facility shall produce a maximum of 150 tons per hour and 1,314,000 tons per year of synthetic gypsum. Compliance with all throughput limits shall be determined using a Twelve Month Rolling Total.
[45CSR13 - Permit No. R13-2319, Condition 4.1.1.]

6.1.2. **Barge Loadout Limits.** The facility shall ship a maximum of 1,500 tons per hour and 1,314,000 tons per year of synthetic gypsum through the barge loadout. Compliance with all throughput limits shall be determined using a Twelve Month Rolling Total.
[45CSR13 - Permit No. R13-2319, Condition 4.1.2.]

6.1.3. **Twelve Month Rolling Total.** Compliance with all annual throughput limits set forth in Conditions 6.1.1. and 6.1.2. of this permit shall be determined using a twelve month rolling total. A twelve (12) month rolling total shall mean the sum of the synthetic gypsum produced (or loaded to barge) at any given time for the previous twelve (12) consecutive calender months.
[45CSR13 - Permit No. R13-2319, Condition 4.1.3.]

6.1.4. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any process source operation which is greater than twenty (20) percent opacity, except as noted in 45CSR§§7-3.2, 3.3, 3.4, 3.5, 3.6, and 3.7.
[45CSR§7-3.1. and 45CSR13 - Permit No. R13-2319, Condition 4.1.8.]

6.1.5. The provisions of Section 6.1.4. of this permit shall not apply to smoke and/or particulate matter emitted from any process source operation which is less than forty (40) percent opacity for any period or periods aggregating no more than five (5) minutes in any sixty (60) minute period.
[45CSR§7-3.2. and 45CSR13 - Permit No. R13-2319, Condition 4.1.8.]

6.1.6. No person shall cause, suffer, allow or permit particulate matter to be vented into the open air from any type source operation or duplicate source operation, or from all air pollution control equipment installed on any type source operation or duplicate source operation in excess of 21.2 lb/hr.
[45CSR§7-4.1. and 45CSR13 - Permit No. R13-2319, Condition 4.1.8.]

6.1.7. No person shall cause, suffer, allow, or permit any manufacturing process generating fugitive particulate matter to operate that is not equipped with a system to minimize the emissions of fugitive particulate matter. To minimize means that a particulate capture or suppression system shall be installed to ensure the lowest fugitive particulate emissions reasonably achievable.
[45CSR§7-5.1. and 45CSR13 - Permit No. R13-2319, Condition 4.1.8.]

6.1.8. The owner or operator of a plant shall maintain particulate matter control of the plant premises, and plant owned, leased or controlled access roads, by paving, application of asphalt, chemical dust suppressants or other suitable dust control measures. Good operating practices shall be implemented and when necessary particulate matter suppressants shall be applied in relation to stockpiling and general material handling to minimize particulate matter generation and atmospheric entrainment.
[45CSR§7-5.2. and 45CSR13 - Permit No. R13-2319, Condition 4.1.8.]

6.1.9. **Operation and Maintenance of Air Pollution Control Equipment.** The permittee shall, to the extent practicable, install, maintain, and operate all pollution control equipment associated with emission points PG-10 through PG-14 and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions, or comply with any more stringent limits set forth in this permit or as set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary. **[45CSR§13-5.11. and 45CSR13 - Permit No. R13-2319, Condition 4.1.4.]**

6.2. Monitoring Requirements

6.2.1. The owner/operator shall schedule and perform no less frequently than once per week, visual emission observations of all synthetic gypsum handling equipment and storage dome. **[45CSR§30-5.1.c.]**

6.3. Testing Requirements

6.3.1. Each emissions unit with a visible emissions limit contained in this permit section shall be observed visually by a trained Method 22 observer at least each calendar week during periods of normal facility operation for a sufficient time interval to determine if the unit has any visible emissions. If visible emissions from any of the emissions units are observed during these weekly observations, or at any other time, that appear to exceed 50 percent of the allowable visible emission requirement for the emission unit, visible emissions evaluations in accordance with 40 C.F.R. Part 60 Appendix A, Method 9 shall be conducted as soon as practicable, but no later than one (1) month from the time of the observation. A Method 9 evaluation shall not be required under this permit condition (6.3.1.) if the visible emissions condition is corrected in a timely manner; the emissions unit is operating at normal operating conditions; and, the cause and corrective measures taken are recorded. **[45CSR§30-5.1.c.]**

6.3.2. If the visible emissions evaluation indicates visible emissions in excess of 50 percent of the allowable visible emissions requirement for a given emission unit, a visible emissions evaluation shall be performed for that unit at least once every consecutive 14-day period in accordance with 40 C.F.R. Part 60 Appendix A, Method 9. If subsequent visible emissions evaluations indicate visible emissions less than or equal to 50 percent of the allowable visible emissions requirement for the emission unit for 3 consecutive evaluation periods, the emission unit may comply with the visible emissions testing requirements of permit condition 6.3.1. above, in lieu of those established in this condition **[45CSR§30-5.1.c.]**

6.4. Recordkeeping Requirements

6.4.1. For the purposes of determining compliance with maximum production and throughput limits set forth in 6.1.1. and 6.1.2., the permittee shall maintain a certified monthly and annual record of the amount of gypsum produced and the amount loaded to barges. All records shall be maintained on-site for a minimum of five (5) years and be made available to the Secretary or his or her duly authorized representative upon request. **[45CSR13 – Permit R13-2319, Condition 4.4.4.]**

6.4.2. A record of each visible emissions observation shall be maintained on site, including any data required by 40 C.F.R. Part 60 Appendix A, Method 9. The records shall include but not be limited to the date the observation was scheduled, the date and time the observation was performed, the applicable visible emissions requirement, operating status of the system, the name of the emission unit, the results of the observation, name of the observer and any corrective action that may have occurred as a result of the observation. **[45CSR§30-5.1.c.]**

6.4.3. Records shall be maintained on site, indicating the use of any dust suppressants or any other suitable dust control measures applied at the facility. All fugitive dust control systems shall be inspected weekly to ensure that they are operated and maintained in conformance with their designs. Records of weekly inspections shall state any maintenance (scheduled and non-scheduled) or corrective actions taken as a result of the weekly inspections, and the times the fugitive dust control system(s) are inoperable and any corrective actions taken. The records shall also include, but not be limited to, the date of the scheduled inspection, the date the inspection was performed, the result of the inspection, and any corrective action that may have been required. The records shall be made available to the Director or his/her duly authorized representative upon request.
[45CSR§30-5.1.c.]

6.4.4. **Record of Maintenance of Air Pollution Control Equipment.** For all pollution control equipment listed in Section 6.1.9. of this permit, the permittee shall maintain accurate records of all required pollution control equipment inspection and/or preventative maintenance procedures.
[45CSR13 – Permit R13-2319, Condition 4.4.2.]

6.4.5. **Record of Malfunctions of Air Pollution Control Equipment.** For all air pollution control equipment listed in Section 6.1.9. of this permit, the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

a. The equipment involved.
b. Steps taken to minimize emissions during the event.
c. The duration of the event.
d. The estimated increase in emissions during the event.

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

e. The cause of the malfunction.
f. Steps taken to correct the malfunction.
g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction.

[45CSR13 – Permit R13-2319, Condition 4.4.3.]

6.5. Reporting Requirements

6.5.1. None.

6.6. Compliance Plan

6.6.1. None.

7.0. Source-Specific Requirements [Willow Island Boilers *(StackW1, StackW2, Aux Blr Stk W1)*]

7.1. Limitations and Standards

7.1.1. Visible Emissions from each stack shall not exceed ten (10) percent opacity based on a six minute block average.
[45CSR§2-3.1.]

7.1.2. Particulate matter emissions from Boiler 1 stack (*StackW1*) shall not exceed 31.00 lb/hr.
[45CSR§2-4.1.a.]

7.1.3. Particulate matter emissions from Boiler 2 stack (*StackW2*) shall not exceed 80.25 lb/hr.
[45CSR§2-4.1.a.]

7.1.4. Particulate matter emissions from the auxiliary boiler stack (*Aux Blr Stk W1*) shall not exceed 1.0 lbm/hr. Compliance with this streamlined PM limit assures compliance with 45CSR§2-4.1.b.
[45CSR13 - Permit No. R13-1099 Specific Requirements (A)(1)]

7.1.5. The addition of sulfur oxides to a combustion unit exit gas stream for the purpose of improving emissions control equipment is prohibited unless written approval for such addition is provided by the Secretary.
[45CSR§2-4.4.]

7.1.6. The visible emission standards shall apply at all times except in periods of start-ups, shutdowns and malfunctions.
[45CSR§2-9.1.]

7.1.7. Any fuel burning unit(s) including associated air pollution control equipment, shall at all times, including periods of start-up, shutdowns, and malfunctions, to the extent practicable, be maintained and operated in a manner consistent with good air pollution control practice for minimizing emissions.
[45CSR§2-9.2.]

7.1.8. Nitrogen oxides emissions, expressed as NO_2, from the auxiliary boiler stack (*Aux Blr Stk W1*) shall not exceed 3.20 lbm/hr.
[45CSR13 - Permit No. R13-1099 Specific Requirements (A)(1)]

7.1.9. Sulfur dioxide emissions from the boiler 1 stack (*StackW1*) shall not exceed 1671.3 lb/hr.
[45CSR§10-3.1.c.]

7.1.10. Sulfur dioxide emissions from the boiler 2 stack (*StackW2*) shall not exceed 4333.5 lb/hr.
[45CSR§10-3.1.c.]

7.1.11. Sulfur dioxide emissions from the auxiliary boiler stack (*Aux Blr StkW1*) shall not exceed 19.8 lbm/hr. Compliance with this streamlined SO_2 limit assures compliance with 45CSR§10-3.1.e.
[45CSR13 - Permit No. R13-1099 Specific Requirements (A)(1)]

7.1.12. Compliance with the allowable sulfur dioxide emission limitations from fuel burning units shall be based on a continuous twenty-four (24) hour averaging time. Emissions shall not be allowed to exceed the weight emissions standards for sulfur dioxide as set forth in 45CSR10, except during one (1) continuous twenty-four (24) hour period in each calendar month. During this one (1) continuous twenty-four hour period emissions

shall not exceed such weight emission standards by more than ten percent (10%) without causing a violation of 45CSR10. A continuous twenty-four (24) hour period is defined as one (1) calendar day.
[45CSR§10-3.8.]

7.1.13. Willow Island Unit W1 and Unit W2 are Phase II Acid Rain affected units under 45CSR33, as defined by 40 C.F.R § 72.6, and as such is required to meet the requirements of 40 C.F.R. Parts 72, 73, 74, 75, 76, 77 and 78. These requirements include:

a. Hold an Acid Rain permit (Acid Rain Permit is included in Appendix D);

b. Hold allowances, as of the allowance transfer deadline, in the unit's compliance sub-account of not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit;

c. Comply with the applicable Acid Rain emissions limitation for sulfur dioxide;

d. Comply with the applicable Acid Rain emissions limitation for nitrogen oxides;

e. Comply with the monitoring requirements of 40 C.F.R. Part 75 and section 407 of the Clean Air Act of 1990 and regulations implementing section 407 of the Act;

f. Submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 C.F.R. Part 72, Subpart I and 40 C.F.R. Part 75.

[45CSR33, 45 C.F.R. Parts 72, 73, 74, 75, 76, 77, 78.]

7.1.14. Non-Methane Hydrocarbon emissions from the auxiliary boiler stack (*Aux Blr Stk W1*) shall not exceed 0.1 lbm/hr.
[45CSR13 - Permit No. R13-1099 Specific Requirements (A)(1)]

7.1.15. Carbon Monoxide emissions from the auxiliary boiler stack (*Aux Blr Stk W1*) shall not exceed 0.32 lbm/hr.
[45CSR13 - Permit No. R13-1099 Specific Requirements (A)(1)]

7.1.16. The fuel burned in the two auxiliary boilers shall consist of #2 fuel oil and/or natural gas only.
[45CSR13 - Permit No. R13-1099 Specific Requirements (A)(2)]

7.1.17. Maximum sulfur content of #2 fuel oil burned in the auxiliary boilers shall not exceed 0.5 percent by weight of sulfur.
[45CSR13 - Permit No. R13-1099 Specific Requirements (A)(3)]

7.1.18. Operation of the auxiliary boilers shall be only during times when the "main" boilers are down, except for those times requiring testing.
[45CSR13 - Permit No. R13-1099 Specific Requirements (A)(4)]

7.1.19 Maximum yearly operation of each individual auxiliary boiler shall not exceed one hundred forty (140) days per year.
[45CSR13 - Permit No. R13-1099 Specific Requirements (A)(5)]

7.1.20. Maximum Design Heat Input to each individual auxiliary boiler shall not exceed 20.41 x 10^6 Btu/hr.
[45CSR13 - Permit No. R13-1099 Specific Requirements (A)(6)]

7.1.21. **Emergency Operating Scenarios.**

a. In the event of an unavoidable shortage of fuel having characteristics or specifications necessary to comply with the visible emission standard set forth in permit condition 7.1.1. of this permit, or any emergency situation or condition creating a threat to public safety or welfare, the Secretary may grant an exemption to the otherwise applicable visible emission standards for a period not to exceed fifteen (15) days, provided that visible emissions during that period do not exceed a maximum six (6) minute average of thirty (30) percent and that a reasonable demonstration is made by the owner or operator that the weight emission standards under permit conditions 7.1.2., 7.1.3., and/or 7.1.4. of this permit, will not be exceeded during the exemption period.

[45CSR§2-10.1.]

b. Due to unavoidable malfunction of equipment or inadvertent fuel shortages, SO_2 emissions exceeding those provided for permit conditions 7.1.9., 7.1.10., and/or 7.1.11. of this permit, may be permitted by the Secretary for periods not to exceed ten (10) days upon specific application to the Secretary. Such application shall be made within twenty-four (24) hours of the equipment malfunction or fuel shortage. In cases of major equipment failure or extended shortages of conforming fuels, additional time periods may be granted by the Secretary, provided a corrective program has been submitted by the owner or operator and approved by the Secretary.

[45CSR§10-9.1.]

7.1.22. **Alternative Fuel Usage Scenarios**

Willow Island Unit W2 may burn "Tire Derived Fuel" (TDF) as outlined in Consent Order CO-R13-99-39, effective date November 8, 1999. (see Appendix E)

7.2. Monitoring Requirements

7.2.1. Compliance with the visible emission requirements of permit condition 7.1.1. shall be determined as outlined in section I.A. of the "45CSR2 Monitoring Plan" submitted on August 6, 2001 and attached in Appendix C of this permit. *(StackW1, StackW2)*

[45CSR§§2-3.2. 8.1.a., & 8.2.]

7.2.2. Compliance with sections 7.1.9., 7.1.10., 7.1.11., and 7.1.12. of this permit shall be demonstrated by testing and/or monitoring in accordance with one or more of the following: 40 C.F.R. Part 60, Appendix A, Method 6, Method 15, continuous emissions monitoring systems (CEMS) or fuel sampling and analysis as set forth in an approved monitoring plan for each emission unit. *(StackW1, StackW2)*

[45CSR§10-8.2.c.]

7.2.3. The owner or operator shall install, calibrate, certify, operate, and maintain continuous monitoring systems that measure and record Opacity and all SO_2, NO_x, and CO_2 emissions from emission points StackW1 and StackW2 as specified in 40 C.F.R. Part 75. The one minute average opacity data shall be used as an input to calculate one minute PM emission rates. Opacity shall be measured on a continuous basis with the exception of QC/QA periods, monitor malfunctions periods, and periods where the boiler is off-line.

[45CSR§30-5.1.c., 45CSR33, 40 C.F.R. § 75.10, and 40 C.F.R. § 64.3(b)(1)]

7.2.4. The Data Aquisition System shall be programmed to calculate PM emissions (lb/hr) from opacity data. The equation used to calculate TSP emissions will be developed using the opacity vs. TSP concentration correlation curves as determined by particulate testing with the TEOM 7000. The opacity vs. TSP concentration curve will

be developed using at least 1,000 paired data points that will attempt to capture a normal full daily cycle of operations. An excursion shall be defined as a 3-hour block average where the calculated PM emission rate exceeds the limit established in 45CSR§2-4.1.a. (31.0 lb/hr for Unit W1; 80.25 lb/hr for Unit W2) **[45CSR§30-5.1.c. and 40 C.F.R. § 64.3(b)(1)]**

7.2.5. The COM QA/QC procedures shall be consistent with the applicable requirements of 40 CFR Part 75. **[40 C.F.R. §75.21 and 40 C.F.R. § 64.3(b)(3)]**

7.2.6. The TSP emission data collected by the TEOM 7000 shall be validated in accordance with manufacturer's recommendations as approved by EPA in the alternative Reference Method approval letter dated October 3, 2002, from Conniesue B. Oldham, EPA to Mr. Edward C. Burgher of Rupprecht & Patashnick Co., Inc. **[45CSR§30-5.1.c. and 40 C.F.R. § 64.3(b)(3)]**

7.2.7. The CAM related testing and CAM plan implementation shall be conducted according to the following schedule:

1. Allegheny Energy shall submit a CAM testing protocol to the Department within 45 days of the issuance of this permit.

2. Allegheny Energy shall complete the CAM testing within 120 days of the issuance if this permit.

3. Testing results, including the excursion limits, and the generated opacity to particulate matter correlation curve shall be submitted to the Department within 45 days after completion of testing.

4. Within 60 days of submittal of the testing results and the generated opacity to particulate matter correlation curve, Allegheny Energy shall begin implementation of the CAM plan.

[45CSR§30-5.1.c. and 40 C.F.R. § 64.4(e)]

7.3. Testing Requirements

7.3.1. The owner or operator shall conduct, or have conducted, tests to determine the compliance of Unit W1 and Unit W2 with the mass emission limitations of permit conditions 7.1.2. & 7.1.3. of this permit. Such tests shall be conducted in accordance with the appropriate method set forth in 45CSR2 Appendix - Compliance Test Procedures for 45CSR2 or other equivalent EPA approved method approved by the Secretary. Such tests shall be conducted in accordance with the schedule set forth in the following table. Tests have been conducted on Willow Island Units W1 and W2 in January 2008 and February 2008, respectively.

Current Test Frequency	Test Results	Retesting Frequency
Annual	after three successive tests indicate mass emission rates ≤50% of weight emission standard	Once/3 years
Annual	after two successive tests indicate mass emission rates <80 % of weight emission standard	Once/2 years
Annual	any tests indicates a mass emission rate ≥80% of weight emission standard	Annual
Once/2 years	after two successive tests indicate mass emission rates ≤50% of weight emission standard	Once/3 years

Current Test Frequency	Test Results	Retesting Frequency
Once/2 years	any tests indicates a mass emission rate <80 % of weight emission standard	Once/2 years
Once/2 years	any tests indicates a mass emission rate ≥80% of weight emission standard	Annual
Once/3 years	any tests indicates a mass emission rate ≤50% of weight emission standard	Once/3 years
Once/3 years	any test indicates mass emission rates between 50% and 80 % of weight emission standard	Once/2 years
Once/3 years	any test indicates a mass emission rate ≥80% of weight emission standard	Annual

[45CSR§2-8.1., 45CSR§2A-5.2.]

7.4. Recordkeeping Requirements

7.4.1. Compliance with the operating and fuel usage requirements and emission limits of permit conditions 7.1.4., 7.4.2., and 7.4.3., shall be demonstrated as outlined in sections III.C.4., III.A. and IV.A. of the "45CSR2 &10 Monitoring Plan" submitted on August 6, 2001 and which is attached in Appendix C of this permit.
[45CSR§§2-8.3.c. & 8.4.a., 45CSR§10-8.3.c.]

7.4.2. Records of monitored data established in the monitoring plan shall be maintained on site and shall be made available to the Secretary or his duly authorized representative upon request. *(StackW1, StackW2)*
[45CSR§2-8.3.a. and 45CSR§10-8.3.a.]

7.4.3. Records of the operating schedule and the quantity and quality of fuel consumed in each fuel burning unit shall be maintained on-site in a manner to be established by the Secretary and made available to the Secretary or his duly authorized representative upon request.
[45CSR§2-8.3.c.]

7.4.4. Opacity - one minute average opacity data shall be collected and stored, and hourly averages based on the one minute data shall be calculated and stored on a certified Data Acquisition System (DAS). TSP - The one minute data, calculated from the one minute average opacity data, shall be used to calculate a 1-hour block average which shall be used to calculate a 3-hour rolling average, all of which shall be stored in an electronic data acquisition system.
[45CSR§30-5.1.c. and 40 C.F.R. 64.9(b)]

7.5. Reporting Requirements

7.5.1. A periodic exception report shall be submitted to the Secretary, in a manner and at a frequency to be established by the Secretary. *(StackW1, StackW2)*
[45CSR§2-8.3.b. and 45CSR§10-8.3.b.]

7.5.2. Compliance with the periodic exception reporting of permit condition 7.5.1. shall be demonstrated as outlined in sections III.C. and IV.C. of the "45CSR2 &10 Monitoring Plan" submitted on August 6, 2001 and which is attached in Appendix C of this permit.
[45CSR§2-8.3.b. and 45CSR§10-8.3.b.]

7.5.3. Excess opacity periods, resulting from any malfunction, meeting the following conditions may be reported on a quarterly basis unless otherwise required by the Secretary:

a. The excess opacity period does not exceed thirty (30) minutes within any twenty-four (24) hour period; and

b. Excess opacity does not exceed forty percent (40%).

[45CSR§2-9.3.a.]

7.5.4. Except as provided in permit condition 7.5.3. above, the owner or operator shall report to the Secretary by telephone, telefax or e-mail, any malfunction of Unit W1 or Unit W2 or their associated air pollution control equipment, which results in any excess particulate matter or excess opacity by the end of the next business day after becoming aware of such condition. The owner or operator shall file a certified written report concerning the malfunction with the Secretary within thirty (30) days providing the following information:

a. A detailed explanation of the factors involved or causes of the malfunction;

b. The date, and time of duration (with starting and ending times) of the period of excess emissions;

c. An estimate of the mass of excess emissions discharged during the malfunction period;

d. The maximum opacity measured or observed during the malfunction;

e. Immediate remedial actions taken at the time of the malfunction to correct or mitigate the effects of the malfunction; and

f. A detailed explanation of the corrective measures or program that will be implemented to prevent a recurrence of the malfunction and a schedule for such implementation.

[45CSR§2-9.3.b.]

7.5.5. Records of the operating schedule and the quantity and quality of fuel consumed in each unit shall be maintained in a manner specified by the Secretary. Such records are to be maintained on-site and made available to the Secretary or his duly authorized representative upon request. *(StackW1, StackW2)*
[45CSR§10-8.3.c.]

7.5.6. The designated representative shall electronically report SO_2, NO_x, and CO_2 emissions data and information as specified in 40 C.F.R. § 75.64 to the Administrator of USEPA, quarterly. Each electronic report must be submitted within thirty (30) days following the end of each calendar quarter.
[45CSR33, 40 C.F.R. § 75.64]

7.5.7. The designated representative shall report excess emissions of opacity recorded under 40 C.F.R. §§ 75.50(f) or 75.54(f) to the Secretary, in the format specified by the Secretary.
[45CSR33, 40 C.F.R. § 75.65]

7.6. Compliance Plan

7.6.1. None.

8.0. Source-Specific Requirements [Willow Island Material Handling Sources]

8.1. Limitations and Standards

8.1.1. **Fugitive Particulate Matter Control.** No person shall cause, suffer, allow, or permit any source of fugitive particulate matter to operate that is not equipped with a fugitive particulate matter control system. This system shall be operated and maintained in such a manner as to minimize the emission of fugitive particulate matter. Sources of fugitive particulate matter associated with fuel burning units shall include, but not be limited to, the following:

a. Stockpiling of ash or fuel either in the open or in enclosures such as silos;

b. Transport of ash in vehicles or on conveying systems, to include spillage, tracking, or blowing of particulate matter from or by such vehicles or equipment; and

c. Ash or fuel handling systems and ash disposal areas.
[45CSR§2-5.1.]

8.1.2. **Emergency Operating Scenarios.** Upon applying to the Secretary for approval, coal may be received by truck in the event of an emergency.

8.2. Monitoring Requirements

8.2.1. None.

8.3. Testing Requirements

8.3.1. None.

8.4. Recordkeeping Requirements

8.4.1. None.

8.5. Reporting Requirements

8.5.1. None.

8.6. Compliance Plan

8.6.1. None.

APPENDIX A

1) Pleasants Power Station NO_x Budget Permit Application

2) Willow Island Power Station NO_x Budget Permit Application

NO_X Budget Permit Application

DAQ
Division of Air Quality

The West Virginia Department of Environmental Protection, Division of Air Quality has prepared this NO_x Budget Permit Application for affected sources under 45CSR1 45CSR26 and/or 40 CFR part 97 (Section 126) Please refer to sections 21 & 22 of 45CSR1 45CSR26 and/or 40 CFR part 97 as applicable

This NO_x Budget Permit Application is submitted under ☐ 45CSR1 ☒ 45CSR26 ☒ Section 126
(Please check all that apply)

This submission is ☒ New ☐ Revised

STEP 1
Identify the source by plant name State and ORIS or facility code

Plant Name	Company ID Number	ORIS/Facility Code
Pleasants Power Station	073 00005	6004

STEP 2
Enter the unit ID# and description for each NO Budget Unit

Unit ID#	Description
1	657 MW coal fired unit for electric generation
2	657 MW coal fired unit for electric generation

STEP 3
Read the standard requirements and the certification enter the name of the NO_x authorized account representative and sign and date

Standard Requirements

(a) Permit Requirements
(1) The NO_x authorized account representative of each NO_x Budget source required to have a federally enforceable permit and each NO_x Budget unit required to have a federally enforceable permit at the source shall
(i) Submit to the Director of the Division of Air Quality (Director) a complete NO Budget permit application under 45CSR1 22 45CSR26-22 and/or § 97.22 in accordance with a deadline specified by the Director under 45CSR1 21 2 and 21 3 45CSR26-21 2 and 21 3 and/or § 97 21(b) and (c) as applicable
(ii) Submit in a timely manner any supplemental information that the Director determines is necessary in order to review a NO_x Budget permit application and issue or deny a "O Budge permi"
(2) The owners and operators of each NO_x Budget source required to have a federally enforceable permit and each NO_x Budget unit required to have a federally enforceable permit at the source shall have a NO Budget permit issued by the Division of Air Quality and operate the unit in compliance with such NO_x Budget permit

(b) Monitoring Requirements

(1) The owners and operators and, to the extent applicable, the NO_x authorized account representative of each NO_x Budget source and each NO Budget unit at the source shall comply with the monitoring requirements of sections 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97 as applicable.

(2) The emissions measurements recorded and reported in accordance with sections 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97 shall be used to determine compliance by the unit with the NO Budget emissions limitation under paragraph (c).

(c) Nitrogen Oxides Requirements

(1) The owners and operators of each NO Budget source and each NO Budget unit at the source shall hold NO allowances available for compliance deductions under subsections 45CSR1 54.1, 54.2, 54.5, or 54.6, 45CSR26-54.1, 54.2, 54.5, or 54.6, and/or § 97-54(a), (b), (e), or (f), as applicable, as of the NO_x allowance transfer deadline in the unit's compliance account and the source's overdraft account in an amount not less than the total NO_x emissions for the ozone season from the unit, as determined in accordance with sections 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97, as applicable, plus any amount necessary to account for actual heat input under subsection 42.5 of 45CSR1 or 45CSR26 and/or § 97-42(e) for the ozone season period or to account for excess emissions for a prior ozone season under subsection 54.4 of 45CSR1 or 45CSR26 and/or § 97-54(d), or to account for withdrawal from the NO_x Budget Trading Program, or a change in regulatory status of a NO Budget opt-in unit under sections 85 or 97 of 45CSR1, and/or § 97-85 or § 97-97, as applicable.

(2) Each ton of nitrogen oxides emitted in excess of the NO Budget emissions limitation shall constitute a separate violation of 45CSR1 or 45CSR26, §§22-5-1 et seq., and/or 40 CFR part 97 and the Clean Air Act.

(3) A NO_x Budget unit shall be subject to the requirements under paragraph (c)(1) starting on the later of May 31, 2004 for NO Budget units under 45CSR1, 45CSR26, and/or 40 CFR part 97, or the date on which the unit commences operation.

(4) NO_x allowances shall be held in, deducted from, or transferred among NO_x Allowance Tracking System accounts in accordance with sections 40 through 43, 50 through 57, 60 through 62, and 70 through 76 of 45CSR1 or 45CSR26, sections 80 through 88 of 45CSR1, and/or subparts E, F, G, and I of 40 CFR part 97, as applicable.

(5) A NO allowance shall not be deducted, in order to comply with the requirements under paragraph (c)(1), for an ozone season in a year prior to the year for which the NO_x allowance was allocated.

(6) A NO_x allowance allocated by the Director or EPA Administrator under the NO_x Budget Trading Program is a limited authorization to emit one ton of nitrogen oxides in accordance with the NO_x Budget Trading Program. No provision of the NO Budget Trading Program, the NO_x Budget permit application, the NO Budget permit, or an exemption under subsection 4.2 or section 5 of 45CSR1 or 45CSR26 and/or § 97-4(b) or § 97-5, as applicable, and no provision of law shall be construed to limit the authority of the Division of Environmental Protection or the United States to terminate or limit such authorization.

(7) A NO_x allowance allocated by the Director or EPA Administrator under the NO_x Budget Trading Program does not constitute a property right.

(8) Upon recordation by the EPA Administrator, every allocation, transfer, or deduction of a NO_x allowance to or from a NO_x Budget unit's compliance account or the overdraft account of the source where the unit is located is incorporated automatically in any NO Budget permit of the NO Budget unit.

(d) Excess Emissions Requirements

(1) The owners and operators of a NO_x Budget unit that has excess emissions in any ozone season shall:

(i) Surrender the NO allowances required for deduction under subdivision 54.4.a of 45CSR1 or 45CSR26 and/or § 97-54(d)(1), as applicable; and

(ii) Pay any fine, penalty, or assessment or comply with any other remedy imposed under subdivision 54.4.c of 45CSR1 or 45CSR26 and/or § 97-54(d)(3).

(e) Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the NO_x Budget source and each NO Budget unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Director or the EPA Administrator.

(i) The account certificate of representation under 45CSR1 13 or 45CSR26 13 and/or § 97-13, as applicable, for the NO_x authorized account representative for the source and each NO Budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new account certificate of representation under 45CSR1 13 or 45CSR26 13 and/or § 97-13 (as applicable) changing the NO_x authorized account representative.

(ii) All emissions monitoring information, in accordance with sections 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97 (as applicable); provided that to the extent that sections 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97 (as applicable) provides for a 3 year period for recordkeeping, the 3 year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the *NO_x Budget Trading Program*.

(iv) Copies of all documents used to complete a NO_x Budget permit application and any other submission under the NO Budget Trading Program or to demonstrate compliance with the requirements of the NO_x Budget Trading Program.

(2) The NO_x authorized account representative of a NO_x Budget source and each NO_x Budget unit at the source shall submit the reports and compliance certifications required under the NO_x Budget Trading Program, including those under sections 30 and 70 through 76 of 45CSR1 or 45CSR26, sections 80 through 88 of 45CSR1, and/or subparts D, H, or I of 40 CFR part 97, as applicable.

Pleasants Power Station
Plant Name (from Step 1)

(f) Liability
(1) Any person who knowingly violates any requirement or prohibition of the NO Budget Trading Program a NO Budget permit or an exemption under subsection 4 2 or section 5 of 45CSR1 or 45CSR26 and/or § 97 4(b) or § 97 5 shall be subject to enforcement pursuant to W Va. Code §§22 5 1 et seq. or the Clean Air Act
(2) Any person who knowingly makes a false material statement in any record submission or report under the NO Budget Trading Program shall be subject o criminal enforcement pursuant to §§22 5 1 et seq or the Clean Air Ac
(3) No permit revision shall excuse any violation of the requirements of the NO_x Budget Trading Program that occurs prior to the date tha the revision takes affect.
(4) Each NO_x Budget source and each NO_x Budget unit shall meet the requirements of the NO Budget Trading Program
(5) Any provision of the NO_x Budget Trading Program that applies to a NO_x Budget source or the NO authorized account representative of a NO_x Budget source shall also apply o the owners and operators of such source and of e NO_x Budge at the ource
(6) Any provision of the NO Budget Trading Program that applies to a NO_x Budget unit or the NO_x authorized account representative of a NO budget unit shall also apply to the owners and operators of such unit. Except with egard to the requirements applicable to units with a common stack under sections 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97 as applicable the owners and operators and the NO_x authorized account representative of one NO_x Budget unit shall not be liable for any violation by any other NO_x Budget unit of which they are not owners or operators or the NO_x authorized account representative and that is located at a source of which they are not owners or operators or the NO_x authorized account representative

(g) Effect on Other Authorities
No provision of the NO_x Budget Trading Program a NO_x Budget permit application a NO_x Budget permit or an exemption under subsection 4 2 or section 5 of 45CSR1 or 45CSR26 and/or § 97.4(b) or § 97 5 shall be construed as exempting or excluding the owners and operators and to the extent applicable the NO_x authorized account representative of a NO_x Budget source or NO Budget unit from compliance with any other provision of the applicable approved State Implementation Plan a federally enforceable permit or the Clean Air Act

Certification

I am authorized to make this submission on behalf of the owners and operators of the NO_x Budget sour es or NO_x Budget units for which the submission is made I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments Based on my inquiry of those individuals with primary responsibility for obtaining the information I certify that the statements and information are to the best of my knowledge and belief true accurate and complete I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information including the possibility of fine or imprisonment.

Name: David C. Benson VP Production & Sales	
Signature: [signature]	Date: 2-7-02

NO_X Budget Permit Application

DAQ Division of Air Quality

The West Virginia Department of Environmental Protection, Division of Air Quality has prepared this NO Budget Permit Application for affected sources under 45CSR1 45CSR26, and/or 40 CFR part 97 (Section 126) Please refer to sections 21 & 22 of 45CSR1 45CSR26 and/or 40 CFR part 97 as applicable.

This NO_x Budget Permit Application is submitted under ☐ **45CSR1** ☒ **45CSR26** ☒ **Section 126**
(Please check all that apply)

This submission is ☒ **New** ☐ **Revised**

STEP 1
Identify the source by plant name, State and ORIS or facility code

Willow Island Power Station	073 00004	3946
Plant Name	Company ID Number	ORIS/Facility Code

STEP 2
Enter the unit ID# and description for each NO Budget Unit.

Unit ID#	Description
1	60 MW coal fired unit for electric generation
2	190 MW coal fired unit for electric generation

STEP 3
Read the standard requirements and the certification, enter the name of the NO_x authorized account representative, and sign and date

Standard Requirements

(a) Permit Requirements

(1) The NO authorized account representative of each NO_x Budget source required to have a federally enforceable permit and each NO_x Budget unit required to have a federally enforceable permit at the source shall

(i) Submit to the Director of the Division of Air Quality (Director) a complete NO_x Budget permit application under 45CSR1 22 45CSR26-22 and/or § 97 22 in accordance with a deadline specified by the Director under 45CSR1 21.2 and 21.3 45CSR26-21 2 and 21 3 and/or § 97.21(b) and (c) as applicable

(ii) Submit in a timely manner any supplemental information that the Director determines is necessary in order to review a NO_x Budget permit application and issue or deny a NO_x Budget permit.

(2) The owners and operators of each NO_x Budget source required to have a federally enforceable permit and each NO_x Budget unit required to have a federally enforceable permit at the source shall have a NO Budget permit issued by the Division of Air Quality and operate the unit in compliance with such NO_x Budget permit

(b) Monitoring Requirements
(1) The owners and operators and, to the extent applicable, the NO_x authorized account representative of each NO_x Budget source and each NO Budget unit at the source shall comply with the monitoring requirements of section 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97 as applicable.
(2) The emissions measurements recorded and reported in accordance with sections 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97 shall be used to determine compliance by the unit with the NO Budget emissions limitation under paragraph (c).

(c) Nitrogen Oxides Requirements
(1) The owners and operators of each NO_x Budget source and each NO_x Budget unit at the source shall hold NO_x allowances available for compliance deductions under subsections 45CSR1 54.1, 54.2, 54.5, or 54.6, 45CSR26-54.1, 54.2, 54.5, or 54.6, and/or § 97.54(a), (b), (e), or (f), as applicable, as of the NO allowance transfer deadline, in the unit's compliance account and the source's overdraft account in an amount not less than the total NO_x emissions for the ozone season from the unit, as determined in accordance with sections 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97, as applicable, plus any amount necessary to account for actual heat input under subsection 42.5 of 45CSR1 or 45CSR26, and/or § 97.42(e), for the ozone season period or to account for excess emissions for a prior ozone season under subsection 54.4 of 45CSR1 or 45CSR26, and/or § 97.54(d), or to account for withdrawal from the NO_x Budget Trading Program, or a change in regulatory status of a NO_x Budget opt-in unit, under sections 86 or 87 of 45CSR1, and/or § 97.86 or § 97.87, as applicable.
(2) Each ton of nitrogen oxides emitted in excess of the NO Budget emissions limitation shall constitute a separate violation of 45CSR1 or 45CSR26, §§22-5-1 et seq., and/or 40 CFR part 97, and the Clean Air Act.
(3) A NO_x Budget unit shall be subject to the requirements under paragraph (c)(1) starting on the later of May 31, 2004 for NO_x Budget units under 45CSR1, 45CSR26, and/or 40 CFR part 97, or the date on which the unit commences operation.
(4) NO_x allowances shall be held in, deducted from, or transferred among NO_x Allowance Tracking System accounts in accordance with sections 40 through 43, 50 through 57, 60 through 62, and 70 through 76 of 45CSR1 or 45CSR26, sections 80 through 88 of 45CSR1, and/or subparts E, F, G, and I of 40 CFR part 97, as applicable.
(5) A NO_x allowance shall not be deducted, in order to comply with the requirements under paragraph (c)(1), for an ozone season in a year prior to the year for which the NO_x allowance was allocated.
(6) A NO_x allowance allocated by the Director or EPA Administrator under the NO_x Budget Trading Program is a limited authorization to emit one ton of nitrogen oxides in accordance with the NO Budget Trading Program. No provision of the NO Budget Trading Program, the NO_x Budget permit application, the NO_x Budget permit, or an exemption under subsection 4.2 or section 5 of 45CSR1 or 45CSR26, and/or § 97.4(b) or § 97.5, as applicable, and no provision of law shall be construed to limit the authority of the Division of Environmental Protection or the United States to terminate or limit such authorization.
(7) A NO_x allowance allocated by the Director or EPA Administrator under the NO Budget Trading Program does not constitute a property right.
(8) Upon recordation by the EPA Administrator, every allocation, transfer, or deduction of a NO_x allowance to or from a NO_x Budget unit's compliance account or the overdraft account of the source where the unit is located is incorporated automatically in any NO Budget permit of the NO Budget unit.

(d) Excess Emissions Requirements
(1) The owners and operators of a NO Budget unit that has excess emissions in any ozone season shall:
(i) Surrender the NO_x allowances required for deduction under subdivision 54.4.a of 45CSR1 or 45CSR26 and/or § 97.54(d)(1), as applicable; and
(ii) Pay any fine, penalty, or assessment or comply with any other remedy imposed under subdivision 54.4.c of 45CSR1 or 45CSR26 and/or § 97.54(d)(3).

(e) Recordkeeping and Reporting Requirements
(1) Unless otherwise provided, the owners and operators of the NO_x Budget source and each NO Budget unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Director or the EPA Administrator.
(i) The account certificate of representation under 45CSR1-13 or 45CSR26-13 and/or § 97.13, as applicable, for the NO_x authorized account representative for the source and each NO_x Budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, provided that the certificate and documents shall be retained on site at the source beyond such 5 year period until such documents are superseded because of the submission of a new account certificate of representation under 45CSR1-13 or 45CSR26-13 and/or § 97.13 (as applicable) changing the NO_x authorized account representative.
(ii) All emissions monitoring information, in accordance with sections 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97 (as applicable), provided that to the extent that sections 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97 (as applicable) provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the NO_x Budget Trading Program.
(iv) Copies of all documents used to complete a NO Budget permit application and any other submission under the NO_x Budget Trading Program or to demonstrate compliance with the requirements of the NO Budget Trading Program.
(2) The NO_x authorized account representative of a NO_x Budget source and each NO_x Budget unit at the source shall submit the reports and compliance certifications required under the NO_x Budget Trading Program, including those under sections 30 and 70 through 76 of 45CSR1 or 45CSR26, sections 80 through 88 of 45CSR1, and/or subparts D, H, or I of 40 CFR part 97, as applicable.

Plant Name (from Step)	Willow Island Power Station

(f) Liability
(1 Any person who knowingly violates any requirement or prohibition of the NO Budget Trading Program a NO Budget permit or an exemption under subsection 4 2 or section 5 of 45CSR1 or 45CSR26 and/or § 97 4(b) or § 97 5 shall be subject to enforcement pursuant to W Va Code §§22 5 1 et seq or the Clean Air Act
(2) Any person who knowingly makes a false material statement in any record submission or report under the NO Budget Trading Program shall be subject to criminal enforcement pursuant to §§22-5-1 et seq or the Clean Air Act
(3) No permit revision shall excuse any violation of the requirements of the NO_x Budget Trading Program that occurs prior to the date that the revision takes effect
(4) Each NO_x Budget source and each NO_x Budget unit shall meet the requirements of the NO_x Budget Trading Program
(5) Any provision of the NO Budget Trading Program that applies to a NO_x Budget source or the NO_x authorized account representative of a NO_x Budget source shall also apply to the owners and operators of such source and of the NO Budget units at the source
(6) Any provision of the NO_x Budget Trading Program that applies to a NO_x Budget unit or the NO_x authorized account representative of a NO_x budget unit shall also apply to the owners and operators of such unit. Except with regard to the requirements applicable to units with a common stack under sections 70 through 76 of 45CSR1 or 45CSR26 and/or subpart H of 40 CFR part 97 as applicable the owners and operators and the NO_x authorized account representative of one NO_x Budget unit shall not be liable for any violation by any other NO Budget unit of which they are not owners or operators or the NO_x authorized account representative and that is located at a source of which they are not owners or operators or the NO_x authorized account representative

(g) Effect on Other Authorities
No provision of the NO_x Budget Trading Program a NO_x Budget permit application a NO_x Budget permit or an exemption under subsection 4 2 or section 5 of 45CSR1 or 45CSR26 and/or § 97 4(b) or § 97 5 shall be construed as exempting or excluding the owners and operators and to the extent applicable the NO_x authorized account representative of a NO_x Budget source or NO_x Budget unit from compliance with any other provision of the applicable approved State Implementation Plan a federally enforceable permit or the Clean Air Act

Certification

I am authorized to make this submission on behalf of the owners and operators of the NO_x Budget sources or NO Budget units for which the submission is made I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments Based on my inquiry of those individuals with primary responsibility for obtaining the information I certify that the statements and information are to the best of my knowledge and belief true accurate and complete I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information including the possibility of fine or imprisonment.

Name	David C Berson VP Production & Sales	
Signature		Date 2-1-02

APPENDIX B

1) Pleasants Power Station CAIR Permit Application

2) Willow Island Power Station CAIR Permit Application

CAIR Permit Application

For sources subject to the Clean Air Interstate Rule Trading Programs under 45CSR39, 45CSR40 and 45CSR41, the West Virginia Department of Environmental Protection, Division of Air Quality has prepared this CAIR Permit Application. Please refer to sections 21 and 22 of 45CSR39, 45CSR40 and 45CSR41, as applicable.

This submission is: ☒ **New** ☐ **Revised**

STEP 1
Identify the source by plant name, and ORIS or facility code

Plant Name	West Virginia ID Number	ORIS/Facility Code
Pleasants Power Station	7300005	6004

STEP 2
Enter the unit ID# for each CAIR unit and indicate to which CAIR programs each unit is subject (by placing an "X" in the column)

Unit ID#	NO_x Annual	NO_x Ozone Season	SO_2 Annual
Unit 1	X	X	X
Unit 2	X	X	X

STEP 3
Read the standard requirements and the certification, enter the name of the CAIR designated representative, and sign and date

Standard Requirements

(a) Permit Requirements.

(1) The CAIR designated representative of each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) required to have a Title V operating permit and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) required to have a Title V operating permit at the source shall:

(i) Submit to the Secretary a complete CAIR permit application under 45CSR§39-22, 45CSR§40-22 and 45CSR§41-22 (as applicable) in accordance with the deadlines specified in 45CSR§39-21, 45CSR§40-21 and 45CSR§41-21 (as applicable); and

(ii) Submit in a timely manner any supplemental information that the Secretary determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

(2) The owners and operators of each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) required to have a Title V operating permit and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) required to have a Title V operating permit at the source shall have a CAIR permit issued by the Secretary under sections 20 through 24 of 45CSR39, 45CSR40 and 45CSR41 (as applicable) for the source and operate the source and the unit in compliance with such CAIR permit.

(3) Except as provided in sections 80 through 88 of 45CSR39, 45CSR40 and 45CSR41, the owners and operators of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) that is not otherwise required to have a Title V operating permit and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) that is not otherwise required to have a Title V operating permit are not required to submit a CAIR permit application and to have a CAIR permit, under sections 20 through 24 of 45CSR39, 45CSR40 and 45CSR41 (as applicable) for such CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) and such CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable).

Plant Name: Pleasants Power Station

STEP 3, continued

(b) Monitoring, reporting and recordkeeping requirements.

(1) The owners and operators and the CAIR designated representative, of each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) at the source shall comply with the monitoring, reporting and recordkeeping requirements of sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable).

(2) The emissions measurements recorded and reported in accordance with sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable) shall be used to determine compliance by each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) with the CAIR NO_x Annual emissions limitation, CAIR NO_x Ozone Season emissions limitation and CAIR SO_2 emissions limitation (as applicable) under 45CSR§39-6.3, 45CSR§40-6.3 and 45CSR§41-6.3 (as applicable).

(c) Nitrogen oxides annual emissions requirements.

(1) As of the allowance transfer deadline for the 2009 control period and each control period thereafter, the owners and operators of each CAIR NO_x Annual source and each CAIR NO_x Annual unit at the source shall hold, in the source's compliance account, CAIR NO_x Annual allowances available for compliance deductions for the control period under 45CSR§39-54.1 in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x Annual units at the source, as determined in accordance with sections 70 through 75 of 45CSR39.

(2) A CAIR NO_x Annual unit shall be subject to the requirements under 45CSR§39-6.3.a for the control period starting on the later of January 1, 2009 or the deadline for meeting the unit's monitor certification requirements under subdivisions 70.2.a, 70.2.b, or 70.2.e of 45CSR39, and for each control period thereafter.

(3) A CAIR NO_x Annual allowance shall not be deducted, for compliance with the requirements under 45CSR§39-6.3.a, for the control period in a calendar year before the year for which the CAIR NO_x Annual allowance was allocated.

(4) CAIR NO_x Annual allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with sections 50 through 62, and 80 through 88 of 45CSR39.

(5) A CAIR NO_x Annual allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 45CSR§39-5 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR NO_x Annual allowance does not constitute a property right.

(7) Upon recordation by the Administrator under sections 40 through 62, and 80 through 88 of 45CSR39, every allocation, transfer, or deduction of a CAIR NO_x Annual allowance to or from a CAIR NO_x Annual source's compliance account is incorporated automatically in any CAIR permit of the source.

(d) Nitrogen oxides ozone season emissions requirements.

(1) As of the allowance transfer deadline for the 2009 ozone season and each ozone season thereafter, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the ozone season under 45CSR§40-54.1 in an amount not less than the tons of total nitrogen oxides emissions for the ozone season from all CAIR NO_x Ozone Season units at the source, as determined in accordance with sections 70 through 75 of 45CSR40.

(2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under 45CSR§40-6.3.a for the ozone season starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under subdivisions 70.2.a, 70.2.b, 70.2.c or 70.2.g of 45CSR40 and for each ozone season thereafter.

(3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under 45CSR§40-6.3.a, for an ozone season in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.

(4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with sections 50 through 62, and 80 through 88 of 45CSR40.

(5) A CAIR NO_x Ozone Season allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 45CSR§40-5 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR NO_x Ozone Season allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subdivision 43.3, sections 51 through 57, 60 through 62, and 80 through 88 of 45CSR40, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

(e) Sulfur dioxide annual emission requirements.

(1) As of the allowance transfer deadline for the 2010 control period and each control period thereafter, the owners and operators of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO_2 allowances available for compliance deductions for the control period, as determined in accordance with subsections 54.1 and 54.2 of 45CSR§41 in an amount not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO_2 units at the source, as determined in accordance with sections 70 through 75 of 45CSR41.

(2) A CAIR SO_2 unit shall be subject to the requirements under 45CSR§41-6.3.a for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under subdivisions 70.2.a, 70.2.b, or 70.2.e of 45CSR41 and for each control period thereafter.

(3) A CAIR SO_2 allowance shall not be deducted, for compliance with the requirements under 45CSR§41-6.3.a, for a control period in a calendar year before the year for which the CAIR SO_2 allowance was allocated.

(4) CAIR SO_2 allowances shall be held in, deducted from, or transferred into or among CAIR SO_2 Allowance Tracking System accounts in accordance with sections 51through 62, and 80 through 88 of 45CSR41.

(5) A CAIR SO_2 allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO_2 Trading Program. No provision of the CAIR SO_2 Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 45CSR§41-5 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR SO_2 allowance does not constitute a property right.

(7) Upon recordation by the Administrator under sections 51 through 57, 60 through 62, and 80 through 88 of 45CSR41, every allocation, transfer, or deduction of a CAIR SO_2 allowance to or from a CAIR SO_2 source's compliance account is incorporated automatically in any CAIR permit of the source.

STEP 3, continued

(f) Excess emissions requirements.

(1) If a CAIR NO_x Annual source emits nitrogen oxides during any control period in excess of the CAIR NO_x Annual emissions limitation, then:

(i) The owners and operators of the source and each CAIR NO_x Annual unit at the source shall surrender the CAIR NO_x Annual allowances required for deduction under 45CSR§39-54.4.a and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or West Virginia Code §22-5-1 et seq; and

(ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 45CSR39, the Clean Air Act, and West Virginia Code §22-5-1 et seq.

(2) If a CAIR NO_x Ozone Season source emits nitrogen oxides during any ozone season in excess of the CAIR NO_x Ozone Season emissions limitation, then:

(i) The owners and operators of the source and each CAIR NO_x Ozone Season unit at the source shall surrender the CAIR NO_x Ozone Season allowances required for deduction under 45CSR§40-54.4.a and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or West Virginia Code §22-5-1 et seq; and

(ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 45CSR40, the Clean Air Act, and West Virginia Code §22-5-1 et seq.

(3) If a CAIR SO_2 source emits sulfur dioxide during any control period in excess of the CAIR SO_2 emissions limitation, then:

(i) The owners and operators of the source and each CAIR SO_2 unit at the source shall surrender the CAIR SO_2 allowances required for deduction under 45CSR§41-54.4.a and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or West Virginia Code §22-5-1 et seq; and

(ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 45CSR41, the Clean Air Act, and West Virginia Code §22-5-1 et seq.

(g) Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Secretary or the Administrator.

(i) The certificate of representation under 45CSR§39-13, 45CSR§40-13 and 45CSR§41-13 (as applicable) for the CAIR designated representative for the source and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 45CSR§39-13, 45CSR§40-13 and 45CSR§41-13 (as applicable) changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable), provided that to the extent that sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable) provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable).

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable).

(2) The CAIR designated representative of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) at the source shall submit the reports required under the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable) including those under sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable).

(h) Liability.

(1) Each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) and each NO_x unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) shall meet the requirements of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable).

(2) Any provision of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program or CAIR SO_2 Trading Program (as applicable) that applies to a CAIR NO_x Annual source, CAIR NO_x Ozone Season source or CAIR SO_2 source (as applicable) or the CAIR designated representative of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source or CAIR SO_2 source (as applicable) shall also apply to the owners and operators of such source and of the CAIR NO_x Annual units, CAIR NO_x Ozone Season units or CAIR SO_2 units (as applicable) at the source.

(3) Any provision of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program or CAIR SO_2 Trading Program (as applicable) that applies to a CAIR NO_x Annual unit, CAIR SO_2 unit or CAIR NO_x Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit or CAIR SO_2 unit (as applicable) shall also apply to the owners and operators of such unit.

(i) Effect on Other Authorities.

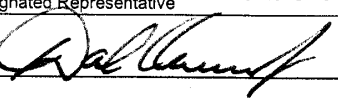
No provision of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable), a CAIR permit application, a CAIR permit, or an exemption under 45CSR§39-5, 45CSR§40-5, or 45CSR§41-5 (as applicable) shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) or CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

Plant Name	Pleasants Power Station

STEP 3, continued

Certification

I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

CAIR Designated Representative	David C. Cannon Jr.	
Signature		Date 6/22/2007

CAIR Permit Application

For sources subject to the Clean Air Interstate Rule Trading Programs under 45CSR39, 45CSR40 and 45CSR41, the West Virginia Department of Environmental Protection, Division of Air Quality has prepared this CAIR Permit Application. Please refer to sections 21 and 22 of 45CSR39, 45CSR40 and 45CSR41, as applicable.

This submission is: ☒ **New** ☐ **Revised**

STEP 1
Identify the source by plant name, and ORIS or facility code

Plant Name	West Virginia ID Number	ORIS/Facility Code
Willow Island Power Station	7300004	3946

STEP 2
Enter the unit ID# for each CAIR unit and indicate to which CAIR programs each unit is subject (by placing an "X" in the column)

Unit ID#	NO_x Annual	NO_x Ozone Season	SO_2 Annual
Unit 1	X	X	X
Unit 2	X	X	X

STEP 3
Read the standard requirements and the certification, enter the name of the CAIR designated representative, and sign and date

Standard Requirements

(a) Permit Requirements.

(1) The CAIR designated representative of each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) required to have a Title V operating permit and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) required to have a Title V operating permit at the source shall:

(i) Submit to the Secretary a complete CAIR permit application under 45CSR§39-22, 45CSR§40-22 and 45CSR§41-22 (as applicable) in accordance with the deadlines specified in 45CSR§39-21, 45CSR§40-21 and 45CSR§41-21 (as applicable); and

(ii) Submit in a timely manner any supplemental information that the Secretary determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

(2) The owners and operators of each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) required to have a Title V operating permit and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) required to have a Title V operating permit at the source shall have a CAIR permit issued by the Secretary under sections 20 through 24 of 45CSR39, 45CSR40 and 45CSR41 (as applicable) for the source and operate the source and the unit in compliance with such CAIR permit.

(3) Except as provided in sections 80 through 88 of 45CSR39, 45CSR40 and 45CSR41, the owners and operators of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) that is not otherwise required to have a Title V operating permit and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) that is not otherwise required to have a Title V operating permit are not required to submit a CAIR permit application and to have a CAIR permit, under sections 20 through 24 of 45CSR39, 45CSR40 and 45CSR41 (as applicable) for such CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) and such CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable).

Plant Name: Willow Island Power Station

STEP 3, continued

(b) Monitoring, reporting and recordkeeping requirements.

(1) The owners and operators and the CAIR designated representative, of each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) at the source shall comply with the monitoring, reporting and recordkeeping requirements of sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable).

(2) The emissions measurements recorded and reported in accordance with sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable) shall be used to determine compliance by each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) with the CAIR NO_x Annual emissions limitation, CAIR NO_x Ozone Season emissions limitation and CAIR SO_2 emissions limitation (as applicable) under 45CSR§39-6.3, 45CSR§40-6.3 and 45CSR§41-6.3 (as applicable).

(c) Nitrogen oxides annual emissions requirements.

(1) As of the allowance transfer deadline for the 2009 control period and each control period thereafter, the owners and operators of each CAIR NO_x Annual source and each CAIR NO_x Annual unit at the source shall hold, in the source's compliance account, CAIR NO_x Annual allowances available for compliance deductions for the control period under 45CSR§39-54.1 in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO_x Annual units at the source, as determined in accordance with sections 70 through 75 of 45CSR39.

(2) A CAIR NO_x Annual unit shall be subject to the requirements under 45CSR§39-6.3.a for the control period starting on the later of January 1, 2009 or the deadline for meeting the unit's monitor certification requirements under subdivisions 70.2.a, 70.2.b, or 70.2.e of 45CSR39, and for each control period thereafter.

(3) A CAIR NO_x Annual allowance shall not be deducted, for compliance with the requirements under 45CSR§39-6.3.a, for the control period in a calendar year before the year for which the CAIR NO_x Annual allowance was allocated.

(4) CAIR NO_x Annual allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with sections 50 through 62, and 80 through 88 of 45CSR39.

(5) A CAIR NO_x Annual allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 45CSR§39-5 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR NO_x Annual allowance does not constitute a property right.

(7) Upon recordation by the Administrator under sections 40 through 62, and 80 through 88 of 45CSR39, every allocation, transfer, or deduction of a CAIR NO_x Annual allowance to or from a CAIR NO_x Annual source's compliance account is incorporated automatically in any CAIR permit of the source.

(d) Nitrogen oxides ozone season emissions requirements.

(1) As of the allowance transfer deadline for the 2009 ozone season and each ozone season thereafter, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the ozone season under 45CSR§40-54.1 in an amount not less than the tons of total nitrogen oxides emissions for the ozone season from all CAIR NO_x Ozone Season units at the source, as determined in accordance with sections 70 through 75 of 45CSR40.

(2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under 45CSR§40-6.3.a for the ozone season starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under subdivisions 70.2.a, 70.2.b, 70.2.c or 70.2.g of 45CSR40 and for each ozone season thereafter.

(3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under 45CSR§40-6.3.a, for an ozone season in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.

(4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with sections 50 through 62, and 80 through 88 of 45CSR40.

(5) A CAIR NO_x Ozone Season allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 45CSR§40-5 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR NO_x Ozone Season allowance does not constitute a property right.

(7) Upon recordation by the Administrator under subdivision 43.3, sections 51 through 57, 60 through 62, and 80 through 88 of 45CSR40, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.

(e) Sulfur dioxide annual emission requirements.

(1) As of the allowance transfer deadline for the 2010 control period and each control period thereafter, the owners and operators of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO_2 allowances available for compliance deductions for the control period, as determined in accordance with subsections 54.1 and 54.2 of 45CSR§41 in an amount not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO_2 units at the source, as determined in accordance with sections 70 through 75 of 45CSR41.

(2) A CAIR SO_2 unit shall be subject to the requirements under 45CSR§41-6.3.a for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under subdivisions 70.2.a, 70.2.b, or 70.2.e of 45CSR41 and for each control period thereafter.

(3) A CAIR SO_2 allowance shall not be deducted, for compliance with the requirements under 45CSR§41-6.3.a, for a control period in a calendar year before the year for which the CAIR SO_2 allowance was allocated.

(4) CAIR SO_2 allowances shall be held in, deducted from, or transferred into or among CAIR SO_2 Allowance Tracking System accounts in accordance with sections 51through 62, and 80 through 88 of 45CSR41.

(5) A CAIR SO_2 allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO_2 Trading Program. No provision of the CAIR SO_2 Trading Program, the CAIR permit application, the CAIR permit, or an exemption under 45CSR§41-5 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR SO_2 allowance does not constitute a property right.

(7) Upon recordation by the Administrator under sections 51 through 57, 60 through 62, and 80 through 88 of 45CSR41, every allocation, transfer, or deduction of a CAIR SO_2 allowance to or from a CAIR SO_2 source's compliance account is incorporated automatically in any CAIR permit of the source.

STEP 3, continued

(f) Excess emissions requirements.

(1) If a CAIR NO_x Annual source emits nitrogen oxides during any control period in excess of the CAIR NO_x Annual emissions limitation, then:

(i) The owners and operators of the source and each CAIR NO_x Annual unit at the source shall surrender the CAIR NO_x Annual allowances required for deduction under 45CSR§39-54.4.a and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or West Virginia Code §22-5-1 et seq; and

(ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 45CSR39, the Clean Air Act, and West Virginia Code §22-5-1 et seq.

(2) If a CAIR NO_x Ozone Season source emits nitrogen oxides during any ozone season in excess of the CAIR NO_x Ozone Season emissions limitation, then:

(i) The owners and operators of the source and each CAIR NO_x Ozone Season unit at the source shall surrender the CAIR NO_x Ozone Season allowances required for deduction under 45CSR§40-54.4.a and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or West Virginia Code §22-5-1 et seq; and

(ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 45CSR40, the Clean Air Act, and West Virginia Code §22-5-1 et seq.

(3) If a CAIR SO_2 source emits sulfur dioxide during any control period in excess of the CAIR SO_2 emissions limitation, then:

(i) The owners and operators of the source and each CAIR SO_2 unit at the source shall surrender the CAIR SO_2 allowances required for deduction under 45CSR§41-54.4.a and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or West Virginia Code §22-5-1 et seq; and

(ii) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 45CSR41, the Clean Air Act, and West Virginia Code §22-5-1 et seq.

(g) Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Secretary or the Administrator.

(i) The certificate of representation under 45CSR§39-13, 45CSR§40-13 and 45CSR§41-13 (as applicable) for the CAIR designated representative for the source and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 45CSR§39-13, 45CSR§40-13 and 45CSR§41-13 (as applicable) changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable), provided that to the extent that sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable) provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable).

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable).

(2) The CAIR designated representative of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) and each CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) at the source shall submit the reports required under the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable) including those under sections 70 through 75 of 45CSR39, 45CSR40 and 45CSR41 (as applicable).

(h) Liability.

(1) Each CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) and each NO_x unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) shall meet the requirements of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable).

(2) Any provision of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program or CAIR SO_2 Trading Program (as applicable) that applies to a CAIR NO_x Annual source, CAIR NO_x Ozone Season source or CAIR SO_2 source (as applicable) or the CAIR designated representative of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source or CAIR SO_2 source (as applicable) shall also apply to the owners and operators of such source and of the CAIR NO_x Annual units, CAIR NO_x Ozone Season units or CAIR SO_2 units (as applicable) at the source.

(3) Any provision of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program or CAIR SO_2 Trading Program (as applicable) that applies to a CAIR NO_x Annual unit, CAIR SO_2 unit or CAIR NO_x Ozone Season unit (as applicable) or the CAIR designated representative of a CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit or CAIR SO_2 unit (as applicable) shall also apply to the owners and operators of such unit.

(i) Effect on Other Authorities.

No provision of the CAIR NO_x Annual Trading Program, CAIR NO_x Ozone Season Trading Program and CAIR SO_2 Trading Program (as applicable), a CAIR permit application, a CAIR permit, or an exemption under 45CSR§39-5, 45CSR§40-5, or 45CSR§41-5 (as applicable) shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x Annual source, CAIR NO_x Ozone Season source and CAIR SO_2 source (as applicable) or CAIR NO_x Annual unit, CAIR NO_x Ozone Season unit and CAIR SO_2 unit (as applicable) from compliance with any other provision of the applicable, approved State implementation plan, a federally enforceable permit, or the Clean Air Act.

Plant Name	Willow Island Power Station

STEP 3, continued

Certification

I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

CAIR Designated Representative	David C. Cannon Jr.	
Signature		Date 4/22/2007

APPENDIX C

1) Pleasants Power Station 45CSR2 & 45CSR10 Monitoring Plan

2) Willow Island Power Station 45CSR2 & 45CSR10 Monitoring Plan

Monitoring and Recordkeeping Plan
45 CSR 2
Utility Boilers

Facility Information:

Facility Name: Pleasants Power Station

Facility Address: Pleasants Power Station
State Route 2 (No. 1 Power Station Blvd.)
Willow Island, WV 26134

Facility Contact: Daniel G. Shearer
Regional Director, Pleasants/Willow Island
Telephone (304) 665-3244
FAX # (304) 665-3282

Manager Air Quality: Mark A. Sowa
800 Cabin Hill Drive
Greensburg, PA. 15601
Telephone (724) 838-6133

Facility Description: (Plant ID # 07300005)

Pleasants Power Station is a coal-fired electric generating facility with two main combustion units (Units 1 & 2) with in-service dates of 1978 and 1980 respectively, discharging through two scrubbed stacks (1 and 2). The fiberglass stack liners exhaust through a single concrete chimney shell with a height of approximately 640 feet and an outlet diameter of approximately 73 feet. There are two hyperbolic cooling towers that service the two units. Each unit has an electrostatic precipitator (ESP) with 99.6% removal efficiency. Pleasants Power Station also has two auxiliary boilers (A and B) that discharge to a separate (auxiliary) stack. Each unit has a design heat input greater than 10mmBtu/hr making them subject to 45CSR2.

I. 45 CSR 2 Monitoring Plan:

In accordance with § 8.2A of 45 CSR 2, the following proposed plan is for monitoring compliance with opacity limits found in § 3 of that rule:

A. Scrubbed Stacks 1 and 2

1. **Applicable Standard:** 10% opacity based on a six-minute block average 45 CSR 2, § 3.1.

2. **Monitoring Methods**

a. Per 45 CFR Part 75 (Acid Rain), the scrubbed stacks are exempt from the COMS requirement. Parametric monitoring will be the primary method for monitoring opacity at Pleasants Power Station, or any other appropriate method that would produce credible data. These "other monitoring methods" will generally be used in the absence of parametric monitoring data or as other credible evidence used in conjunction with parametric monitoring data.

b. Section 45 CSR 2A§6.3.a.1 requires that the monitoring plan include provisions to take Method 9 readings for compliance determination at a minimum of once per month per stack when the source has operated at normal conditions for at least twenty-four hours. The two units at Pleasants are scrubbed and exhaust to two liners within a single concrete chimney shell, creating a combined plume. Consequently a Method 9 reading to determine compliance for a single stack cannot be obtained. As an alternate means of complying with 45CSR 2, Pleasants Power Station will monitor compliance with the weight emissions standard via daily parametric monitoring as described in this plan.

Section 45CSR 2A§6.3.A.8.a requires Method 9 readings for parametric excursions exceeding one hour. Pleasants Power Station is exempt from the Method 9 requirement, and conducts daily, not hourly, parametric monitoring calculations. Section h describes the alternate compliance plan and follow up actions for parametric excursions.

c. Pleasants Power Station will use the guidance and methodology provided by WV DAQ to calculate the Allowable Particulate Emission Rate (lb/hr), the Potential Particulate Emission Rate (lb/hr), the Required Control Efficiency (%) and the actual Precipitator Efficiency (%) for both ESPs on a daily basis. These calculations may be based on, but are not limited to, the following data for each of the two precipitators:

45 CSR 2A §6.3.a.2 Monitored Input Parameters

Coal Heating Value (Btu/lb)
Coal – Ash (%)
Ash LOI (%)
Flyash (Tons)
Bottom Ash (Tons)
CEMS Heat Input (mmBtu/hr)
ESP Power (W)
1A Secondary Gas Out Temp Avg. (°F)
1B Secondary Gas Out Temp Avg. (°F)
Ambient Temperature (°F)

45 CSR 2A §6.3.a.2 Constant Input Parameters

Coal F-Factor (wscf/mmBtu) = 10,640
Total DHI @ 100% Load (mmBtu/hr) = 6245
Excess Air = 20%

Values for the Total Design Heat Input and Excess Air were obtained from the Foster Wheeler Vol. 1 Summary Performance Sheet @ 100% load.

45 CSR 2A §6.3.a.2 Calculated Parameters

The following calculations use the Monitored and Constant parameters listed previously:

"Alternate" Coal Feedrate (lb/hr)
"Alternate" Air Flowrate (wscf/min)
ESP Temperature (°R)
Ambient Temperature (°R)
Temperature Correction Factor
"Corrected" Air Flowrate (ACFM)
Corona Power Density (W / 1000 ACFM)
Precipitator Efficiency (%)
Ash / Coal Ratio
Flyash / Total Ash Ratio
Unburned Carbon / Flyash Ratio (LOI)
Allowable Particulate Emission Rate (lb/hr)
Potential Particulate Emission Rate (lb/hr)
Required Control Efficiency (%)
Precipitator Efficiency (%)

d. **45 CSR 2A §6.3.a.3 Monitoring Method and Frequency**

Monitoring Method

The parameters listed in the previous sections will be used to calculate a Precipitator Efficiency (%) and a Particulate Emission Rate (lbs/hr) on a daily basis. These calculated values will be compared to the calculated Required Control Efficiency (%) and Allowable Particulate Emission Rate (lb/hr) respectively. In addition the input parameters will be checked monthly/daily to determine if they fall within the nominal ranges specified in section 1.e. of the monitoring plan.

Frequency

Input parameters will be obtained either as daily instantaneous readings or as monthly averages. All calculated parameters will be updated daily to reflect the new values.

The following data will be obtained in the form of monthly averages from the most recent completed monthly Performance Report:

Coal – Heating Value (Btu/lb)
Coal – Ash %
Ash – LOI %
Flyash (Tons)
Bottom Ash (Tons)

An instantaneous reading (real time data) will be collected once per day from the Digital Control System (DCS), the Precipitator Control System, or the CEM system for each of the following input parameters:

CEMS Heat Input (mmBtu/hr)
ESP Power (W)
1A Secondary Gas Out Temp Avg. (°F)
1B Secondary Gas Out Temp Avg. (°F)
Ambient Temperature (°F)

The remaining parameters are calculated as detailed in Appendix A.

e. **45 CSR 2A §6.3.a.4 Nominal Range of Input Parameters**

The potential emissions and monitoring parameter calculations in the equations specified by WVDAQ's guidance information will vary with fluctuations in the input parameters. The following nominal ranges are representative of the input parameters, on a per unit basis:

PARAMETER	UNIT 1	UNIT 2
Coal-Heating Value, Btu/lb	12,014 - 12,226	12,014 - 12,226
Coal – Ash %	11.12 - 12.06	11.12 - 12.06
Ash LOI %	4.12 - 6.69	2.22 - 5.07
Flyash, Tons	12,555 – 18,612	4,860 – 17,956
Bottom Ash, Tons	2,263 – 3,458	1,083 – 3,353
CEMS Heat Input (mmBtu/hr)	3600 – 7000	3600 - 7000
ESP Power (kW)	600 - 1600	600 - 1600
A Secondary Gas Out Temp Avg. (°F)	150-400	150-400
B Secondary Gas Out Temp Avg. (°F)	150-400	150-400
Ambient Temperature (°F)	-10-100	-10-100

f. **45 CSR 2A §6.3.a.5 Explanation of Chosen Input Parameter and how it is Indicative of Compliance**

Appendix A illustrates how the chosen input parameters are used to indicate compliance. The input parameters are used to calculate a precipitator efficiency (%) and particulate emission rate (lb/hr) on a daily basis. An input parameter excursion alone will not be considered as evidence of compliance or non-compliance (45 CSR 2 8.2.a.3). [Note: Subsequent excursions of the same input parameter may warrant a revision to the nominal range].

g. **45 CSR 2A §6.3.a.6 Explanation of how Nominal Ranges were Chosen**

The nominal ranges listed above were based on historical data from January through October 2001 for all parameters except CEMS Heat Input and ESP Power. Ranges for these parameters were obtained from the most recent few month's data as of November 2001. All ranges are representative of actual monthly averages during typical operating loads in year 2001. These values may be updated in the future as operating conditions dictate.

h. **45 CSR 2A §6.3.a.8 Response Plan to be Implemented During Opacity Excursions**

If an input parameter exceeds the nominal range or the calculated precipitator efficiency or calculated particulate emission rate exceed the required values, station personnel will take action as soon as possible to correct the problem. A second parametric data computation will be taken after any equipment checks or actions have been taken to correct the excursion. This computation should occur no later than 24 hours from the first computation. This sequence of actions should continue until the parameter falls back into range and/or the parametric computation yields results within the standard. If the total percentage of time for this parametric excursion in combination with all other excursions in the reporting period (calendar quarter) exceeds 10% of the total operating time in the reporting period, a stack test will be scheduled for that unit. Data obtained from the stack test will then be compared to the parametric monitoring data and documented to show the relationship between measured particulate emission rate values and the parametric monitoring values taken during the test. If the stack test shows compliance with the particulate standard, then the nominal input parameter ranges can be adjusted accordingly.

B. Auxiliary Stack

1. Applicable Standard: 10% opacity based on a six-minute block average 45 CSR 2, § 3.1.

2. Monitoring Method(s)

Pleasants Power Station is petitioning the Department of Air Quality (DAQ) Chief for alternative monitoring requirements and exemption from testing for the auxiliary boilers and the associated stack, pursuant to 45 CSR2 Section 8.4.a and 8.4.a.1 (Infrequent Use exception). Based on an average heat content of 139,000 mmBtu/gallon and a design heat input of 222 mmBtu/hour, auxiliary boilers A and B averaged 6.4 hours and 11.3 hours of oil-fired operation, respectively, over the 1998-1999 two year time period. Similarly, the auxiliary boilers averaged 71 hours and 67 hours of natural gas firing, respectively, (approximate heat value 1,000 Btu/scf) over the two year period. Thus, the average total hours of operation for auxiliary boilers is approximately 78 hours per boiler per year, or less than 1% of the available hours for each boiler. Based on these limited operating hours, we believe that the requirement for COMS installation per 45 CSR2A Section 6.2.a is overly burdensome and sufficient reason for the granting of alternative monitoring methods. Pleasants Power Station is proposing, as an alternative to COMS monitoring, that Method 9 (visible emission) readings be conducted once a month provided the following conditions are met: 1) The auxiliary boiler has operated at normal, stable load conditions for at least 24 consecutive hours, and 2) weather/lighting conditions are conducive to taking proper Method 9 readings.

II. 45 CSR 2 Recordkeeping and Reporting Plan

A. Operating Schedule and Quality/Quantity of Fuel Burned

1. The owner or operator of a fuel burning unit(s) shall maintain records of the operating schedule, and the quality and quantity of fuel burned in each fuel burning unit as determined in 45 CSR 2A, § 7.1.a.

2. Pipeline quality natural gas only, If used: such record shall include, but not limited to, the date and time of start-up and shutdown, and the quantity of fuel consumed on a monthly basis as determined in 45 CSR 2A, § 7.1.a.1.

3. Distillate oil only: such records shall include, but not be limited to, the date and time of start-up and shutdown, the quantity of fuel consumed on a monthly basis as determined in 45 CSR 2A, § 7.1.a.2.

4. Coal only: such records shall include, but not be limited to, the date and time of start-up and shutdown, the quantity of fuel consumed on a daily basis and an ash, BTU and sulfur content analysis for each shipment as determined in 45 CSR 2A, § 7.1.a.4.

5. Alternative, and/or opportunity fuel(s): such records shall include, but not be limited to, the date and time of start-up and shutdown, and fuel quality analysis as approved by the director as determined by 45 CSR 2A, § 7.1.a.5.

6. Combination of fuels: the owner or operator shall comply with the applicable recordkeeping requirements of §s 7.1.a.1 through 7.1.a.5 for each fuel burned as determined in 45 CSR 2A, § 7.1.a.6.

B. Record Maintenance

1. Records of all required monitoring data and support information shall be maintained on-site for a period of at least five (5) Years from the date of monitoring, sampling, testing, measurement and reporting. Support information includes all calibration and maintenance records, strip charts, and copies of all required reports. In the case of auxiliary boilers, strip chart recordings, etc, are generally not available.

C. Exception Reporting

1. Compliance with the reporting and testing requirements under the Appendix to 45 CSR 2 shall fulfill the requirement for a periodic exception report under subdivision 8.3.b or 45 CSR 2 – 45 CSR 2A, § 7.2.a.

2. Non-COMS Based Monitoring, Summary Report and Excursion Report. Each owner or operator employing non-COMS based monitoring shall submit a monitoring summary report and/or an excursion report to the Director on a quarterly basis (within 30 days of the end of the quarter). The Director may request more frequent reporting if deemed necessary to accurately assess the compliance of the units. The report shall be in a format approved by the Director. Ref. 45 CSR 2A, § 7.2.c.

    a. If the total number of excursions for the reporting period is less than one percent (1%) of the total number of readings for the reporting period and the number of readings missing for the reporting period is less than five percent (5%) of the total

number of readings agreed upon for the reporting period, the monitoring summary report shall be submitted to the Director, and the excursion report shall be maintained on-site and shall be submitted to the Director upon request. Ref 45 CSR2A, § 7.2.c.1.

b. If the number of excursions for the reporting period is one percent (1%) or greater of the total number of readings for the reporting period or the number of readings missing for the reporting period is five percent (5%) or greater of the total number of readings agreed upon, the monitoring plan summary report and the excursion report shall both be submitted to the Director. Ref 45 CSR 2A, § 7.2.c.2.

c. The excursion and non-COMS monitoring plan report shall be in a format approved by the Director and shall include, but not be limited to, the following information (Ref. 45 CSR 2A, § 7.2.c.3):

45 CSR 2A §7.2.c.3.A. The magnitude of each excursion, including the date and time, and the starting and ending times of each excursion.

45 CSR 2A §7.2.c.3.B. Specific identification of each excursion that occurs during startups, shutdowns and malfunctions.

45 CSR 2A §7.2.c.3.C. The nature and cause of any excursion (if known), and the corrective action taken and preventative measures adopted (if any).

45 CSR 2A §7.2.c.3.D. The date and time identifying each period during when data is unavailable, and the reason for data unavailability and the corrective action taken.

45 CSR 2A §7.2.c.3.E. When no excursions have occurred or there were no periods of data unavailability, such information shall be stated in the report.

d. To the extent that an excursion is due to a malfunction, the reporting requirements in section 9 of 45 CSR 2 shall be followed. Ref. 45 CSR 2A, § 7.2.d.

3. Pursuant to 45 CSR 2, Section 8.4.a and 8.4.a.1, Pleasants Power Station is petitioning the Department of Air Quality (DAQ) Chief for alternative testing, monitoring, and reporting requirements for the auxiliary boilers and associated stack. The basis for the "infrequent operation" petition is found in the quantity of fuel used during the last few years as detailed earlier in this plan.

a. As an alternative to the testing and exception reporting requirements for particulate mass emissions from the auxiliary boilers, we propose that the fuel analysis records maintained under the fuel quality analysis and recordkeeping section of this plan provide sufficient evidence of compliance with the particulate mass emission limit. Based on an average heat content (distillate oil) of approximately 139,000 Btu/gallon and an AP-42 based particulate mass emissions emission factor of 2 lbs/thousand gallons, the calculated particulate mass emissions of the auxiliary boilers are 0.01 lb/mmBtu for each boiler. Based on an average heat content

(natural gas) of approximately 1,000 Btu/scf and an AP-42 based filterable PM emission factor of 1.9 lb/mmcf, the calculated particulate mass emissions of the auxiliary boilers are 0.0019 lb/mmBtu for each boiler. Hence, it is estimated that each boiler has total calculated particulate mass emissions of approximately 0.0019 lb/mmBtu each year. For the purpose of meeting exception reporting requirements for fuel oil, any fuel oil analysis indicating a heat content of less than 25,000 Btu/gallon will be reported to the DAQ to fulfill the requirement for a periodic exception report under 45 CSR 2 Section 8.3.b. and 45 CSR 2A, § 7.2.a. A heat content of 25,000 Btu/gal and a particulate emissions factor of 2 lbs/thousand gallons would result in a calculated particulate mass emissions of approximately 90% of the applicable 45 CSR 2 weight emission standard. Ref. 45 CSR 2, § 4.1.b.

b. As an alternative to the exception reporting requirements for opacity emissions from the auxiliary boilers, we are proposing to maintain a copy of each properly conducted (appropriate weather and lighting conditions, etc.) Method 9 evaluation on-site. Any properly conducted Method 9 test that indicates an exceedance shall be submitted to the DAQ on a quarterly basis (within 30 days of the end of the quarter) along with an accompanying description of the excursion cause, any corrective action taken, and the beginning and ending times for the excursion.

To the extent that an excursion is due to a malfunction, the reporting requirements of 45 CSR 2 Section 9 shall be followed. Ref. 45 CSR 2A, § 7.2.d.

If no exceptions have occurred during the quarter, then a report will be submitted to the DAQ stating so. This will include periods in which no Method 9 tests were conducted (e.g. unit out of service) or when no fuel oil was received.

APPENDIX A

Coal Feedrate $_{Alternate}$ (lb/hr)

$$= \frac{Heat\ Input_{CEMS}(mmBtu/hr) * 10000000(Btu/mmBtu)}{Coal\ Heating\ Value(Btu/lb)}$$

Variables required for this calculation are as follows:

Heat Input $_{CEMS}$ (mmBtu/hr)	Source of this value is the CEM System
Coal Heating Value (Btu/lb)	Source of this value is the Performance Report Fuel Data

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Air Flowrate$_{Alternate}$ (wscf/hr)

$$= Coal\ Feedrate_{Alternate}(lb/hr) * F\ Factor(wscf/hr) * \left(\frac{1}{10^6}\right)(mmBtu/Btu) * Coal\ Heating\ Value(Btu/lb)$$

Variables required for this calculation are as follows:

Coal Feedrate $_{Alternate}$ (lb/hr)	Source of this value is a previous calculation
F- Factor (wscf/hr)	This value is a constant equal to 10,640 for coal
Coal Heating Value (Btu/lb)	Source of this value is the Performance Report Fuel Data

Note: The following equation yields the same result after substitution of the calculation expression for Coal Feedrate$_{Alternate}$ and the cancellation of terms.

Air Flowrate $_{Alternate}$ (wscf/hr)

$= Heat\ Input_{CEMS}\ (mmBtu/hr) * F\ Factor(wscf/hr)$

Air Flowrate $_{Corrected}$ (ACFM)

$$= Air\ Flowrate_{Alternate}\,(wscf\ /\ hr) * \left(\frac{1}{60}\right)(hr\ /\ \min) * \left(\frac{460 + ESP\,Temp}{460 + Ambient}\right) * \left(1 + Excess\ Air\right)$$

Variables required for this calculation are as follows:

Air Flowrate $_{Alternate}$ (wscf/hr)	Source of this value is a previous calculation
ESP Temp	Source of this value is the DCS
Ambient Temp	Source of this value is the DCS
Excess Air = 20 %	Source of this value is Foster Wheeler Vol 1 Summary Performance Sheet @ 100 % Load

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Corona Power Density (W/1000 ACFM)

$$= \frac{ESP_{power}\,(W)}{\left(\frac{Air\ Flowrate_{Corrected}\,(ACFM)}{1000}\right)}$$

Variables required for this calculation are as follows:

ESP$_{power}$ (W)	Source of value is the Precipitator Control System
Air Flowrate $_{Corrected}$ (ACFM)	Source of this value is a previous calculation

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Allowable Particulate Emission Rate (lb/hr)

= 0.05 * Total Design Heat Input (mmBtu/hr)

= 0.05 * 6245 (mmBtu/hr) = 312.45 (mmBtu/hr)

Variables required for this calculation are as follows:

Total Design Heat Input (mmBtu/hr)	Source of this value is Foster Wheeler Vol 1 Summary Performance Sheet @ 100 % Load

[543000 (lb/hr) * 11500 (Btu/lb)] / $1*10^6$ (Btu/mmBtu)

Potential Particulate Emission Rate (lb/hr)

$$\frac{CoalFeedrate_{Alternate}(lb/hr)*\left(\frac{ash(lb)}{fuel(lb)}\right)*\left(\frac{flyash(lb)}{ash(lb)}\right)}{1-\left(\frac{unburnedcarbon(lb)}{flyash(lb)}\right)}$$

Variables required for this calculation are as follows:

Coal Feedrate $_{Alternate}$ (lb/hr)	Source of this value is a previous calculation
ash (lb) / fuel (lb)	Source of this value is the Performance Report Fuel Data
flyash (lb) / ash (lb)	Source of these values is the Performance Report Fuel Data
unburned carbon(lb)/flyash (lb)(LOI)	Source of this value is the Performance Report Fuel Data

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Required Control Efficiency (%)

$$=\left(1-\left(\frac{Allowable\ Particulate\ Emission\ Rate\ (lb/hr)}{Potential\ Particulate\ Emission\ Rate\ (lb/hr)}\right)\right)*100$$

Variables required for this calculation are as follows:

Allowable Particulate Emission Rate (lb/hr)	Source of this value is a previous calculation
Potential Particulate Emission Rate (lb/hr)	Source of this value is a previous calculation

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Precipitator Efficiency (%)

$$=\left(1-e^{-0.06*0.55*Corona\ Power\ Density\ (W/1000\ ACFM)}\right)*100$$

Variables required for this calculation are as follows:

Corona Power Density (W/1000 ACFM)	Source of this value is a previous calculation

---

A	B	C
1		
2	**Unit 1 Precipitator**	
3		
4	**Entered Values**	
5		
6	**Coal - Heating Value (Btu / lb)**	
7	**Coal - Ash (%)**	
8	**Ash LOI (%)**	
9	**Flyash (Tons)**	
10	**Bottom Ash (Tons)**	
11		
12	**CEMS Heat Input (mmBtu / hr)**	
13		
14	**ESP Power (W)**	
15		
16	**1A Secondary Gas Out Temp Avg. (Deg F)**	
17	**1B Secondary Gas Out Temp Avg. (Deg F)**	
18	**Ambient Temp (Deg F)**	
19		
20	**Constant Values**	
21		
22	**Coal F-Factor (wscf / mmBtu) = 10,640**	
23		
24	**Total Design Heat Input @ 100 % Load**	
25	**543000 (lb/hr) * 11500 (Btu/lb) = 6245 (mmBtu/hr)**	
26	**from Foster Wheeler Vol 1 Summary Performance**	
27		
28	**Temp Deg R = Deg F + 460**	
29		
30	**Excess Air = 20 %**	
31	**from Foster Wheeler Vol 1 Summary Performance**	
32		
33	**Calculations**	
34		
35	**Coal Feedrate (lb/hr) "Alternate"**	+(C12*1000000)/C6
36		
37	**Air Flowrate (wscf / hr) "Alternate"**	+C35*1800*0.000001*C6
38	**Air Flowrate (wscf / min) "Alternate"**	+C37/60
39		
40	**ESP Temp (Deg R)**	+((C16+C17)/2)+460
41	**Ambient Temp (Deg R)**	+C18+460
42	**Temp correction factor**	+C40/C41
43		
44	**Excess Air "Multiplier"**	1+0.2
45		
46	**Air Flowrate (ACFM) "Corrected"**	+C38*C42*C44
47		
48	**Corona Power Density (W / 1000ACFM)**	+C14/(C46/1000)
49	**Precipitator Efficiency (%)**	(1-EXP(-0.06*0.55*C48))*100
50		
51	**Allowable Particulate Emission Rate (lb/hr)**	0.05*6245
52	**Potential Particulate Emission Rate (lb / hr)**	(C35*C55*C56)/C58
53	**Required Control Efficiency (%)**	(1-(C51/C52))*100
54		
55	**Ash / Coal ratio**	+C7/100
56	**Flyash / Total Ash ratio**	+C9/(C9+C10)
57	**Unburned Carbon / Flyash ratio (LOI)**	+C8/100
58	**1 - (Unburned Carbon / Flyash ratio)**	1-C57

A	B	C
1		
2	**Unit 2 Precipitator**	
3		
4	**Entered Values**	
5		
6	**Coal - Heating Value (Btu / lb)**	
7	**Coal - Ash (%)**	
8	**Ash LOI (%)**	
9	**Flyash (Tons)**	
10	**Bottom Ash (Tons)**	
11		
12	**CEMS Heat Input (mmBtu / hr)**	
13		
14	**ESP Power (W)**	
15		
16	**2A Secondary Gas Out Temp Avg. (Deg F)**	
17	**2B Secondary Gas Out Temp Avg. (Deg F)**	
18	**Ambient Temp (Deg F)**	
19		
20	**Constant Values**	
21		
22	**Coal F-Factor (wscf / mmBtu) = 10,640**	
23		
24	**Total Design Heat Input @ 100 % Load**	
25	**543000 (lb/hr) * 11500 (Btu/lb) = 6245 (mmBtu/hr)**	
26	**from Foster Wheeler Vol 1 Summary Performance**	
27		
28	**Temp Deg R = Deg F + 460**	
29		
30	**Excess Air = 20 %**	
31	**from Foster Wheeler Vol 1 Summary Performance**	
32		
33	**Calculations**	
34		
35	**Coal Feedrate (lb/hr) "Alternate"**	+(C12*1000000)/C6
36		
37	**Air Flowrate (wscf / hr) "Alternate"**	+C35*1800*0.000001*C6
38	**Air Flowrate (wscf / min) "Alternate"**	+C37/60
39		
40	**ESP Temp (Deg R)**	+((C16+C17)/2)+460
41	**Ambient Temp (Deg R)**	+C18+460
42	**Temp correction factor**	+C40/C41
43		
44	**Excess Air "Multiplier"**	1.200
45		
46	**Air Flowrate (ACFM) "Corrected"**	+C38*C42*C44
47		
48	**Corona Power Density (W / 1000ACFM)**	+C14/(C46/1000)
49	**Precipitator Efficiency (%)**	(1-EXP(-0.06*0.55*C48))*100
50		
51	**Allowable Particulate Emission Rate (lb / hr)**	0.05*6245
52	**Potential Particulate Emission Rate (lb / hr)**	(C35*C55*C56)/C58
53	**Required Control Efficiency (%)**	(1-(C51/C52))*100
54		
55	**Ash / Coal ratio**	+C7/100
56	**Flyash / Total Ash ratio**	+C9/(C9+C10)
57	**Unburned Carbon / Flyash ratio (LOI)**	+C8/100
58	**1 - (Unburned Carbon / Flyash ratio)**	1-C57

Monitoring and Recordkeeping Plan
45 CSR 2 and 45 CSR 10
Utility Boilers

Facility Information:

Facility Name: Willow Island Power Station

Facility Address: Willow Island Power Station
State Route 2 (No. 2 Power Station Blvd.)
Willow Island, WV 26134

Facility Contact: Daniel G. Shearer
Regional Director, Pleasants/Willow Island
Telephone (304) 665-3244
FAX # (304) 665-3282

Manager Air Quality: Mark A. Sowa
800 Cabin Hill Drive
Greensburg, PA. 15601
Telephone (724) 838-6133

Facility Description: (Plant ID # 7300004)

Willow Island Power Station is a coal-fired electric generating facility with two main combustion units (Units 1 & 2) with in-service dates of 1949 and 1960 respectively, discharging through two individual stacks. Stacks 1 & 2 each have a height of approximately 215.6', with an outlet diameter of approximately 18.3'. There are no cooling towers. Each unit has an electrostatic precipitator (ESP) with 99.6% removal efficiency. Willow Island Power Station has two auxiliary boilers (3A and 3B) with a common auxiliary stack. Each unit has a design heat input greater than 10mmBtu/hr making them subject to 45CSR 2 and 45 CSR 10.

I. 45 CSR 2 Monitoring Plan:

In accordance with § 8.2A of 45 CSR 2, the following proposed plan is for monitoring compliance with opacity limits found in § 3 of that rule:

A. Stacks 1 and 2

1. Applicable Standard: 10% opacity based on a six-minute block average 45 CSR 2, § 3.1.
2. Monitoring Methods(s)

a. The primary method for monitoring opacity at the Willow Island Power Station will be Continuous Opacity Monitors (COMS). The COMS are installed, maintained and operated in compliance with 40 CFR Part 60 (NSPS) and Part 75 (Acid Rain).

Other Credible Monitoring Method(s): Willow Island Power Station is reserving the right to use Method 9 readings, or any other appropriate method that would produce credible data. These "other monitoring methods" will generally be used in the absence of COMS data or as other credible evidence used in conjunction with COMS dataIf used, Method 9 readings, with a minimum duration of 30 minutes, will be conducted daily when following conditions are met: 1) The auxiliary boiler has operated at normal, stable load conditions for at least 24 consecutive hours, and 2) weather/lighting conditions are conducive to taking proper Method 9 readings.

B. Auxiliary Stack

1. Applicable Standard: 10% opacity based on a six-minute block average 45 CSR 2, § 3.1.

2. Monitoring Method(s)

Willow Island Power Station is exempt from the periodic testing requirements of 45 CSR 2 Section 8.1.a and the monitoring requirements of 45 CSR 2 Section 8.2 with respect to the auxiliary boilers, based upon a design heat input of 19.89 mmBtu/hr for each unit. Ref. 45 CSR 2 Section 8.4.c.

II. 45 CSR 10 Monitoring Plan:

In accordance with § 8.2c of 45 CSR 10, following is the proposed plan for monitoring compliance with the sulfur dioxide weight emission standards expressed in § 3 of that of that rule:

A. Stacks 1 and 2

1. Applicable Standard: The product of 2.7 and the total design heat inputs for all units discharging through the stacks in million BTU's per hour. Compliance with the SO_2 limit is based on a continuous 24-hour averaging time, 45 CSR 10, § 3.1c.

2. Primary Monitoring Method: The primary method of monitoring SO_2 mass emissions from Stacks 1, 2 and 3 will be Continuous Emission Monitors (CEMS). The CEMS are installed, maintained and operated in compliance with 40 CFR Part 75. As specified in 45 CSR 10, § 8.2.c.1, measurement with a certified CEMS shall satisfy the monitoring plan requirements.

3. Other Credible Monitoring Methods: While CEMS is the primary monitoring method, in the absence of CEMS, we reserve the right to use ASTM compliant fuel sampling and analysis or any other appropriate method that would produce credible data.

B. Auxiliary Stack

1. Applicable Standard: The product of 3.1 and the total design heat inputs for Type "b" fuel burning units, discharging through the stacks in million BTU's per hour. Compliance with the SO2 limit is based on a continuous 24-hour averaging time. Ref 45 CSR 10, § 3.1.e and 3.8.

2. Monitoring, Recordkeeping, and Exception Reporting Requirements: The Willow Island Power Station auxiliary boilers (and stack) are exempt from the Testing, Monitoring, Recordkeeping, and Reporting requirements found under 45 CSR 10, § 8 in accordance with 45 CSR 10 § 10.3 because the fuel burning sources combust either natural gas, distillate oil, or a combination of the two. 45 CSR 10, § 3.8 also contains the requirement for the development of a monitoring plan. Because the burning of distillate oil results in an SO2 emission rate well below the standard, fuel sampling and analysis may continue to be performed at this facility, but will be done so at the discretion of the owner/operator. Because the burning of natural gas results in negligible SO2 emission rates, fuel sampling and analysis of natural gas will not be performed. It is not required by this monitoring plan for the purposes of indicating compliance of the auxiliary boilers with SO2 standards.

III. 45 CSR 2 Recordkeeping and Reporting Plan

A. Operating Schedule and Quality/Quantity of Fuel Burned

1. The owner or operator of a fuel burning unit(s) shall maintain records of the operating schedule, and the quality and quantity of fuel burned in each fuel burning unit as determined in 45 CSR 2A, § 7.1.a.

2. Pipeline quality natural gas only, If used: such record shall include, but not limited to, the date and time of start-up and shutdown, and the quantity of fuel consumed on a monthly basis as determined in 45 CSR 2A, § 7.1.a.1.

3. Distillate oil only: such records shall include, but not be limited to, the date and time of start-up and shutdown, the quantity of fuel consumed on a monthly basis as determined in 45 CSR 2A, § 7.1.a.2.

4. Coal only: such records shall include, but not be limited to, the date and time of start-up and shutdown, the quantity of fuel consumed on a daily basis and an ash, BTU and sulfur content analysis for each shipment as determined in 45 CSR 2A, § 7.1.a.4.
5. Alternative, and/or opportunity fuel(s): such records shall include, but not be limited to, the date and time of start-up and shutdown, and fuel quality analysis as approved by the director as determined by 45 CSR 2A, § 7.1.a.5.

6. Combination of fuels: the owner or operator shall comply with the applicable recordkeeping requirements of §s 7.1.a.1 through 7.1.a.5 for each fuel burned as determined in 45 CSR 2A, § 7.1.a.6.

B. Record Maintenance

1. Records of all required monitoring data and support information shall be maintained on-site for a period of at least five (5) Years from the date of monitoring, sampling, testing, measurement and reporting. Support information includes all calibration and maintenance records, strip charts, and copies of all required reports. In the case of auxiliary boilers, strip chart recordings, etc., are generally not available.

C. Exception Reporting

1. Compliance with the reporting and testing requirements under the Appendix to 45 CSR 2 shall fulfill the requirement for a periodic exception report under subdivision 8.3.b or 45 CSR 2 – 45 CSR 2A, § 7.2.a.

2. COMS: "Summary Report and/or Monitoring System Performance Report": Each owner or operator employing COMS as the method for monitoring opacity shall submit a summary report and /or an excursion and COMS monitoring system report to the Director on a quarterly basis (within 30 days of the end of the quarter). The Director may require more frequent reporting if deemed necessary to accurately assess compliance. The COMS summary report will be in an already established format, or one specified by the Director.

    a. If the duration of excursions for the reporting period is less than one percent (1%) of the total operating time and monitoring system downtime for the reporting period is less than five percent (5%) of the total operating time, the summary report shall be submitted to the Director, the excursion and COMS monitoring system report shall be maintained on-site and shall be submitted to the Director upon request. Ref 45 CSR 2A, § 7.2.b.1.

    b. If the total duration of excursions for the reporting period is one percent (1%) or greater of the total operating time, or total monitoring system downtime for the reporting period is five percent (5%) or greater, both reports shall be submitted to the Director. Ref 45 CSR 2A, § 7.2.b.2.

    c. The excursion and COMS monitoring system report shall be in a format approved by the Director and shall include, but not be limited to the following information. Ref 45 CSR 2A, §s. 7.2.b.3, 7.2.b.3.A, B, C, D, and E.

    d. The magnitude of each excursion, including the date and time, and the starting and ending times of each excursion.

e. Specific identification of each excursion that occurs during start-ups, shutdowns and malfunctions.

f. The nature and cause of any excursion (if known), and the corrective action taken and preventative measures adopted (if any).

g. The date and time identifying each period during which quality controlled (assured) monitoring data was unavailable, except for zero and span checks, and the reason for data unavailability and the nature of repairs or adjustments to the monitoring system.

h. When no excursions have occurred or there were no periods of quality controlled data unavailability, and no monitoring systems were inoperative, repaired, or adjusted, such information shall be stated in the report.

3. Non-COMS Based Monitoring, Summary Report and Excursion Report. Each owner or operator employing non-COMS based monitoring shall submit a monitoring summary report and/or an excursion report to the Director on a quarterly basis (within 30 days of the end of the quarter). The Director may request more frequent reporting if deemed necessary to accurately assess the compliance of the units. The report shall be in a format approved by the Director. Ref. 45 CSR 2A, § 7.2.c.

   a. If the total number of excursions for the reporting period is less than one percent (1%) of the total number of readings for the reporting period and the number of readings missing for the reporting period is less than five percent (5%) of the total number of readings agreed upon in the monitoring plan, the monitoring summary report shall be submitted to the Director, and the excursion report shall be maintained on-site and shall be submitted to the Director upon request. Ref 45 CSR 2A, § 7.2.c.1.

   b. If the number of excursions for the reporting period is one percent (1%) or greater of the total number of readings for the reporting period or the number of readings missing for the reporting period is five percent (5%) or greater, the monitoring plan summary report and the excursion report shall both be submitted to the Director. Ref 45 CSR 2A, § 7.2.c.2.

   c. The excursion and monitoring plan report shall be in a format approved by the Director and shall include, but not be limited to, the information as outlined in Paragraph C.2.d, e, f, g, and h of this plan.

   d. To the extent that an excursion is due to a malfunction, the reporting requirements in section 9 of 45 CSR 2 shall be followed. Ref. 45 CSR 2A, § 7.2.d.

4. Pursuant to 45 CSR 2, Section 8.4.a, Willow Island Power Station is petitioning the Office of Air Quality (OAQ) Chief for alternative reporting requirements for the auxiliary boiler and associated stack.

a. As an alternative to the testing and exception reporting requirements for particulate mass emissions from the auxiliary boilers, we propose that the fuel analysis records maintained under the fuel quality analysis and recordkeeping section of this plan provide sufficient evidence of compliance with the particulate mass emission limit. Based on an average heat content (distillate oil) of approximately 139,000 Btu/gallon and an AP-42 based particulate mass emissions emission factor of 2 lbs/thousand gallons, the calculated particulate mass emissions of the auxiliary boilers are 0.01 lb/mmBtu for each boiler. Based on an average heat content (natural gas) of approximately 1,000 Btu/scf and an AP-42 based filterable PM emission factor of 1.9 lb/Mcf, the caucluated particulate mass emissions of the auxiliary boilers are 1.9 lb/mmBtu for each boiler. Hence, it is estimated that each boiler has a total calculated particulate mass emissions of approximately 1.91 .b/mmBtu per year. For the purpose of meeting exception reporting requirements for fuel oil, any fuel oil analysis indicating a heat content of less than 25,000 Btu/gallon will be reported to the OAQ to fulfill the requirement for a periodic exception report under 45 CSR 2 Section 8.3.b. and 45 CSR 2A, § 7.2.a. A heat content of 25,000 Btu/gal and a particulate emissions factor of 2 lbs/thousand gallons would result in a calculated particulate mass emissions of approximately 90% of the applicable 45 CSR 2 weight emission standard. Ref. 45 CSR 2 Section 4.1.b.

b. To the extent that an excursion is due to a malfunction, the reporting requirements of 45 CSR 2 Section 9 shall be followed. Ref. 45 CSR 2A, § 7.2.d.

If no exceptions have occurred during the quarter, then a report will be submitted to the OAQ stating so. This will include periods in which no Method 9 tests were conducted (e.g. unit out of service) or when no fuel oil was received.

IV. 45 CSR 10 Recordkeeping and Reporting Plan

A. Operating Schedule and Quality/Quantity of Fuel Burned

1. The owner or operator of a fuel burning unit(s) shall maintain records of the operating schedule and the quality and quantity of fuel burned in each unit. Such records shall include, but not be limited to, the date and time of start-up and shutdown, the quantity of fuel consumed on a daily basis, and a periodic fuel quality analysis as set forth below. Ref. 45 CSR 10 A, § 7.1.a:

a. ≥90% of Factor daily

b. <90% of Factor per shipment

The owner or operator shall provide in the monitoring plan a quality control and quality assurance program for the fuel analysis. If a certified independent laboratory is used to provide the fuel analysis, the quality control and assurance program is deemed to be satisfactory. Ref 45 CSR 10A, §7.1.a.1.

c. The owner/operator of fuel burning units utilizing CEMS shall be exempt from the provisions of 7.1.a and 7.1.b. Ref. 45 CSR 10A, §7.1.c.

B. Record Maintenance

1. For fuel burning units, and combustion sources, records of all required monitoring data and support information shall be maintained on-site for a period of at least five (5) years from the date of monitoring, sampling, measurement or reporting. Support information includes all calibration and maintenance records and all strip chart recordings, and copies of all reports. Ref. 45 CSR 10A,§ 7.1.d.

C. Exception Reporting

1. CEMS – each owner or operator employing CEMS for an approved monitoring plan shall submit a CEMS summary report and/or an excursion report quarterly (within 30 days of end of quarter) to the Director. The Director may request more frequent reports if deemed necessary to assess compliance of the units. The CEMS report shall be submitted in a format approved by the Director, or as specified by the Director. Ref 45 CSR 10A, § 7.2.a

    a. Submittal of 40 CFR Part 75 data in electronic data reporting (EDR) format to the Director shall be deemed to satisfy the requirements of Section 7.2.a. Ref 45 CSR 10A, § 7.2.a.1.

2. If the total duration of excursions for the reporting period is less than four percent (4%) of the total source operating time for the reporting period and the total monitoring method downtime for the reporting period is less than five percent (5%) of the total source operating time for the reporting period, only the CEMS summary shall be submitted. The excursion summary shall be maintained on-site and shall be submitted to the Director upon request. Ref 45 CSR 10A, § 7.2.a.2.

3. If the total duration of excursions for the reporting period is four percent or greater of the total operating time for the reporting period or the total monitoring method downtime for the reporting period is five percent (5%) or greater of the total operating time for the reporting period, the CEMS summary report and the excursion report shall both be submitted to the Director. Ref. 45 CSR 10A, § 7.2.a.3.

4. The CEMS excursion and monitoring report shall be in format approved by the Director and shall include the following information. Ref. 45 CSR 10 A, § 7.2.a.4.

    a. The magnitude of each excursion, and the date and time, including starting and ending times of each excursion. Ref. 45 CSR 10A, § 7.2.a.4.A.

b. Specific identification of each excursion that occurs during startups, shutdowns, and malfunctions of the facility. Ref. 45 CSR10A, § 7.2.a.4.B.

c. The nature and cause of any malfunction (if known), and the corrective action taken and preventive measures adopted. Ref. 45 CSR 10A, § 7.2.a.4.C.

d. The date and time identifying each period during which quality assured data was unavailable, except for zero and span checks, and the reason for data unavailability and the nature of the repairs or adjustments to the monitoring system. Ref. 45 CSR 10A, § 7.2.a.4.D.

e. When no excursions have occurred or there were no periods of quality assured unavailability, and no monitoring systems were inoperative, repaired, or adjusted, such information shall be stated in the report. Ref. 45 CSR 10A, § 7.2.a.4.E.

5. Non-COMS based monitoring – each owner or operator employing non COMS based monitoring shall submit a monitoring summary report and an excursion report to the Director on a quarterly basis (within 30 days of the end of the quarter). The Director may require more frequent reporting if deemed necessary to assess the compliance of the fuel burning units. The monitoring summary report shall contain the information and be in a format approved by the Director. Ref. 45 CSR 10A, § 7.2.b.

   a. If the total number of excursions for the reporting period is less than four percent (4%) of the total number of readings for the reporting period and the number of readings missing for the reporting period is less than five percent (5%) of the total number of readings agreed upon in the monitoring plan, the monitoring summary report shall be submitted to the Director, and the excursion report shall be maintained on-site and shall be submitted to the Director upon request. Ref. 45 CSR 10A, § 7.2.b.1.

   b. If the number of excursions for the reporting period is four percent (4%) or greater of the total number of readings for the reporting period or the number of readings missing for the reporting period is five percent (5%) or greater, the monitoring plan summary report and the excursion report shall both be submitted to the Director. Ref 45 CSR 10A, § 7.2.b.2.

6. The CEMS excursion and monitoring report shall be in format approved by the Director and shall include the following information. Ref. 45 CSR 10 A, § 7.2.b.3.

   a. The magnitude of each excursion, and the date and time, including starting and ending times of each excursion. Ref. 45 CSR 10A, § 7.2.b.3.A.

   b. Specific identification of each excursion that occurs during startups, shutdowns, and malfunctions of the facility. Ref. 45 CSR10A, § 7.2.b.3.B.

c. The nature and cause of any malfunction (if known), and the corrective action taken and preventive measures adopted. Ref. 45 CSR 10A, § 7.2.b.3.C.

d. The date and time identifying each period during which quality assured data was unavailable, except for zero and span checks, and the reason for data unavailability and the nature of the repairs or adjustments to the monitoring system. Ref. 45 CSR 10A, § 7.2.b.3.D.

e. When no excursions have occurred or there were no periods of quality assured unavailability, and no monitoring systems were inoperative, repaired, or adjusted, such information shall be stated in the report. Ref. 45 CSR 10A, § 7.2.b.3.E.

D. Auxiliary Stack Recordkeeping and Reporting

1. Recordkeeping, and Exception Reporting Requirements: The Willow Island Power Station auxiliary boilers (and stack) are exempt from the Testing, Monitoring, Recordkeeping, and Reporting requirements found under 45 CSR 10, § 8 because the fuel burning unit(s) combust natural gas and/or distillate oil. Ref 45 CSR 10, §10.

APPENDIX D

1). Pleasants Power Station Acid Rain Permit

2). Willow Island Power Station Acid Rain Permit

west virginia department of environmental protection
Division of Air Quality

Phase II Acid Rain Permit

Plant Name: **Pleasants Power Station**		Permit #: **R33-6004-2012-3**
Affected Unit(s): **1, 2**		
Operator: **Allegheny Energy Supply Company, LLC**		ORIS Code: **6004**
Effective Date	From: **January 1, 2008**	To: **December 31, 2012**

Contents:

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1. Statement of Basis

Statutory and Regulatory Authorities: In accordance with W. Va. Code §22-5-4(a)(16) and Titles IV and V of the Clean Air Act, the West Virginia Department of Environmental Protection, Division of Air Quality issues this permit pursuant to 45CSR33 and 45CSR30.

Permit Approval

John A. Benedict, Director
Division of Air Quality

12-18-07
Date

Plant Name: **Pleasants Power Station**	Permit #: **R33-6004-2012-3**

2. SO_2 Allocations and NO_x Requirements for each affected unit

Unit No. **1**

SO_2 Allowances	**Year**				
	2008	**2009**	**2010**	**2011**	**2012**
Table 2 allowances, as adjusted by 40CFR Part 73	17603*	17603*	17633	17633	17633
Repowering plan allowances	N/A	N/A	N/A	N/A	N/A

The number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. The aforementioned condition does not necessitate a revision to the unit SO_2 allowance allocations identified in this permit (See 40 CFR §72.84). **Note: 2008 and 2009 allowances are the sum of Column "(B)" and Column "(C)" of Table 2 of 40CFR§73.10.*

NO_X Requirements	**2008**	**2009**	**2010**	**2011**	**2012**
NO_X Limit (lb/mmBtu)	0.34	0.34	0.34	0.34	0.34

Pursuant to 40 CFR §76.11, the West Virginia Department of Environmental Protection, Division of Air Quality approves five (5) NO_x emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2008, 2009, 2010, 2011 and 2012. Under each plan, the unit's NO_x emissions shall not exceed the annual alternative contemporaneous emission limitation (ACEL) of 0.34 lb/mmBtu. In addition, this unit shall not have an annual heat input less than 38,320,000 mmBtu.

Under the plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR §76.5, 76.6 or 76.7, except that for early election units, the applicable emission limitations shall be under 40 CFR §76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR §76.11(d)(1)(ii)(A)) is met for a year under the plan, then this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.

In accordance with 40 CFR §72.40(b)(2), approval of the averaging plan shall be final only when the Pennsylvania Department of Environmental Resources, Bureau of Air Quality Control and the Maryland Department of Environment, Air and Radiation Management Administration Air Program Coordination have also approved this averaging plan.

In addition to the described NO_x compliance plans, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NO_x compliance plan and requirements covering excess emissions.

3. Comments, notes and justifications regarding decisions, and changes made to the permit application forms during the review process:

As a result of comments from American Electric Power, the 2008 and 2009 SO_2 allowances have been adjusted to reflect an October 30, 2000 reallocation of allowances by USEPA. The 2008 and 2009 allowances are the sum of Column "(B)" and Column "(C)" of Table 2 of 40CFR§73.10.

As a result of comments from USEPA, the "Operator" on Page 1 has been changed from *Monongahela Power Company* to *Allegheny Energy Supply Company, LLC*

4. Permit application forms:

Attached.

Plant Name: **Pleasants Power Station**	Permit #: **R33-6004-2012-3**

2. SO_2 Allocations and NO_x Requirements for each affected unit

Unit No. **2**

SO_2 Allowances	**Year**				
	2008	**2009**	**2010**	**2011**	**2012**
Table 2 allowances, as adjusted by 40CFR Part 73	20194*	20194*	20229	20229	20229
Repowering plan allowances	N/A	N/A	N/A	N/A	N/A
The number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. The aforementioned condition does not necessitate a revision to the unit SO_2 allowance allocations identified in this permit (See 40 CFR §72.84). **Note: 2008 and 2009 allowances are the sum of Column "(B)" and Column "(C)" of Table 2 of 40CFR§73.10.*					

NO_X Requirements	**2008**	**2009**	**2010**	**2011**	**2012**
NO_X Limit (lb/mmBtu)	0.37	0.37	0.37	0.37	0.37

Pursuant to 40 CFR §76.11, the West Virginia Department of Environmental Protection, Division of Air Quality approves five (5) NO_x emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2008, 2009, 2010, 2011 and 2012. Under each plan, the unit's NO_x emissions shall not exceed the annual alternative contemporaneous emission limitation (ACEL) of 0.37 lb/mmBtu. In addition, this unit shall not have an annual heat input less than 36,129,000 mmBtu.

Under the plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR §76.5, 76.6 or 76.7, except that for early election units, the applicable emission limitations shall be under 40 CFR §76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR §76.11(d)(1)(ii)(A)) is met for a year under the plan, then this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.

In accordance with 40 CFR §72.40(b)(2), approval of the averaging plan shall be final only when the Pennsylvania Department of Environmental Resources, Bureau of Air Quality Control and the Maryland Department of Environment, Air and Radiation Management Administration Air Program Coordination have also approved this averaging plan.

In addition to the described NO_x compliance plans, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NO_x compliance plan and requirements covering excess emissions.

3. Comments, notes and justifications regarding decisions, and changes made to the permit application forms during the review process:

As a result of comments from American Electric Power, the 2008 and 2009 SO_2 allowances have been adjusted to reflect an October 30, 2000 reallocation of allowances by USEPA. The 2008 and 2009 allowances are the sum of Column "(B)" and Column "(C)" of Table 2 of 40CFR§73.10.

As a result of comments from USEPA, the "Operator" on Page 1 has been changed from *Monongahela Power Company* to *Allegheny Energy Supply Company, LLC*

4. Permit application forms:

Attached.

ORIGINAL

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Acid Rain Permit Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31

This submission is: X **New** ☐ **Revised**

STEP 1

Identify the source by plant name, State, and ORIS code.

Plant Name	State	ORIS Code
Pleasants Power Station	WV	6004

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a." For new units, enter the requested information in columns "c" and "d."

a	b	c	d
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	New Units Commence Operation Date	New Units Monitor Certification Deadline
1	Yes		
2	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		

Pleasants Power Station
Plant Name (from Step 1)

STEP 3

Read the standard requirements

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
(2) The owners and operators of each affected source and each affected unit at the source shall:
(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

ORIGINAL

Pleasants Power Station
Plant Name (from Step 1)

STEP 3, Cont'd.

Nitrogen Oxides Requirements The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting
authority:
(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

Pleasants Power Station
Plant Name (from Step 1)

Step 3, Cont'd.

Liability, Cont'd.

(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided,* that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

Read the certification statement, sign, and date

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name: Leo C. Rajter, Vice President Generation Operations	
Signature: Leo C. Rajter	Date: 6/26/07

ORIGINAL

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

This submission is: ☐ New ☒ Revised

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Albright	WV	1	0.50	0.69	9,005,000
Albright	WV	2	0.50	0.70	9,005,000
Albright	WV	3	0.45	0.40	8,294,000
Armstrong	PA	1	0.50	0.40	10,571,000
Armstrong	PA	2	0.50	0.36	10,841,000
Fort Martin	WV	1	0.45	0.31	35,426,000
Fort Martin	WV	2	0.68	0.31	33,811,000
Harrison	WV	1	0.50	0.42	42,311,000
Harrison	WV	2	0.50	0.42	42,513,000

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan		Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7
0.43	≤	0.56

$$\frac{\sum_{i=1}^{n} (R_{Li} \times HI_i)}{\sum_{i=1}^{n} HI_i} \leq \frac{\sum_{i=1}^{n} [R_{1i} \times HI_i]}{\sum_{i=1}^{n} HI_i}$$

Where,

R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1:

R_{1i} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;

HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;

n = Number of units in the averaging plan

ORIGINAL

Albright, Armstrong, Ft. Martin, Harrison, Hatfield, Mitchell, Pleasants, Rivesville, R. Paul Smith, and Willow Island
Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

☐ This plan is effective for calendar year _____ through calendar year _____ unless notification to terminate the plan is given.

☒ Treat this plan as [5] identical plans, each effective for one calendar year for the following calendar years: 2008, 2009, 2010, 2011 and 2012 unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

(i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
(a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
(b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
(ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
(iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name David C. Cannon Jr., DR	
Signature 	Date 6/22/2007

ORIGINAL

Albright, Armstrong, Ft. Martin, Harrison, Hatfield, Mitchell, Pleasants, Rivesville, R. Paul Smith, and Willow Island
Plant Name (from Step 1)

NO_x Averaging - Page 3

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Harrison	WV	3	0.50	0.42	36,074,000
Hatfield's Ferry	PA	1	0.68	0.39	27,295,000
Hatfield's Ferry	PA	2	0.68	0.39	22,305,000
Hatfield's Ferry	PA	3	0.68	0.39	30,720,000
Mitchell	PA	33	0.45	0.36	12,384,000
Pleasants	WV	1	0.50	0.34	38,320,000
Pleasants	WV	2	0.50	0.37	36,129,000
Rivesville	WV	7	0.80	0.90	5,790,000
Rivesville	WV	8	0.80	0.67	4,672,000
R. Paul Smith	MD	9	0.50	0.80	4,292,000
R. Paul Smith	MD	11	0.45	0.41	4,119,000
Willow Island	WV	1	0.80	0.58	3,529,000
Willow Island	WV	2	0.86	0.96	18,151,000

ORIGINAL

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_X Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

This submission is: ☐ New ☒ Revised

STEP 1
Indicate plant name, State, and ORIS code from NADB, if applicable

Plant Name	State	ORIS Code
Pleasants Power Station	WV	6004

STEP 2

Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.

	ID# 1 Type DBW	ID# 2 Type DBW	ID# Type	ID# Type	ID# Type	ID# Type
(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)	☐	☐	☐	☐	☐	☐
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)	☐	☐	☐	☐	☐	☐
(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)	☐	☐	☐	☐	☐	☐
(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)	☐	☐	☐	☐	☐	☐
(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)	☐	☐	☐	☐	☐	☐
(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)	☐	☐	☐	☐	☐	☐
(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)	☐	☐	☐	☐	☐	☐
(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)	☐	☐	☐	☐	☐	☐
(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)	☐	☐	☐	☐	☐	☐
(j) NO_x Averaging Plan (include NO_x Averaging form)	☒	☒	☐	☐	☐	☐
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)	☐	☐	☐	☐	☐	☐
(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)	☐	☐	☐	☐	☐	☐

ORIGINAL

Plant Name (from Step 1)	Pleasants Power Station

STEP 2, cont'd.

	ID# / Type	ID# / Type	ID# / Type	ID# / Type	ID# / Type	ID# / Type
(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)	☐	☐	☐	☐	☐	☐
(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)	☐	☐	☐	☐	☐	☐
(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing	☐	☐	☐	☐	☐	☐
(p) Repowering extension plan approved or under review	☐	☐	☐	☐	☐	☐

STEP 3
Read the standard requirements and certification, enter the name of the designated representative, sign &

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).
Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.
Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	David C. Cannon Jr., DR	
Signature	David Cannon	Date 6/22/2007

west virginia department of environmental protection
Division of Air Quality

Phase II Acid Rain Permit

Plant Name: **Willow Island Power Station**		Permit #: **R33-3946-2012-3**
Affected Unit(s): **1, 2**		
Operator: **Allegheny Energy Supply Company, LLC**		ORIS Code: **3946**
Effective Date	From: **January 1, 2008**	To: **December 31, 2012**

Contents:

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1. Statement of Basis

Statutory and Regulatory Authorities: In accordance with W. Va. Code §22-5-4(a)(16) and Titles IV and V of the Clean Air Act, the West Virginia Department of Environmental Protection, Division of Air Quality issues this permit pursuant to 45CSR33 and 45CSR30.

Permit Approval

John A. Benedict, Director
Division of Air Quality

12-18-07
Date

Plant Name: **Willow Island Power Station**	Permit #: **R33-3946-2012-3**

2. SO_2 Allocations and NO_x Requirements for each affected unit

Unit No. **1**

SO_2 Allowances	**Year**				
	2008	**2009**	**2010**	**2011**	**2012**
Table 2 allowances, as adjusted by 40CFR Part 73	1496*	1496*	961	961	961
Repowering plan allowances	N/A	N/A	N/A	N/A	N/A

The number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. The aforementioned condition does not necessitate a revision to the unit SO_2 allowance allocations identified in this permit (See 40 CFR §72.84). **Note: 2008 and 2009 allowances are the sum of Column "(B)" and Column "(C)" of Table 2 of 40CFR§73.10.*

NO_X Requirements	**2008**	**2009**	**2010**	**2011**	**2012**
NO_X Limit (lb/mmBtu)	0.58	0.58	0.58	0.58	0.58

Pursuant to 40 CFR §76.11, the West Virginia Department of Environmental Protection, Division of Air Quality approves five (5) NO_x emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2008, 2009, 2010, 2011 and 2012. Under each plan, the unit's NO_x emissions shall not exceed the annual alternative contemporaneous emission limitation (ACEL) of 0.58 lb/mmBtu. In addition, this unit shall not have an annual heat input less than 3,529,000 mmBtu.

Under the plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR §76.5, 76.6 or 76.7, except that for early election units, the applicable emission limitations shall be under 40 CFR §76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR §76.11(d)(1)(ii)(A)) is met for a year under the plan, then this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.

In accordance with 40 CFR §72.40(b)(2), approval of the averaging plan shall be final only when the Pennsylvania Department of Environmental Resources, Bureau of Air Quality Control and the Maryland Department of Environment, Air and Radiation Management Administration Air Program Coordination have also approved this averaging plan.

In addition to the described NO_x compliance plans, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NO_x compliance plan and requirements covering excess emissions.

3. Comments, notes and justifications regarding decisions, and changes made to the permit application forms during the review process:

As a result of comments from American Electric Power, the 2008 and 2009 SO_2 allowances have been adjusted to reflect an October 30, 2000 reallocation of allowances by USEPA. The 2008 and 2009 allowances are the sum of Column "(B)" and Column "(C)" of Table 2 of 40CFR§73.10.

As a result of comments from USEPA, the "Operator" on Page 1 has been changed from *Monongahela Power Company* to *Allegheny Energy Supply Company, LLC*

4. Permit application forms:

Attached.

Plant Name: **Willow Island Power Station**	Permit #: **R33-3946-2012-3**

2. SO_2 Allocations and NO_x Requirements for each affected unit

Unit No. **2**

SO_2 Allowances	**Year**				
	2008	**2009**	**2010**	**2011**	**2012**
Table 2 allowances, as adjusted by 40CFR Part 73	4684*	4684*	4029	4029	4029
Repowering plan allowances	N/A	N/A	N/A	N/A	N/A

The number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. The aforementioned condition does not necessitate a revision to the unit SO_2 allowance allocations identified in this permit (See 40 CFR §72.84). **Note: 2008 and 2009 allowances are the sum of Column "(B)" and Column "(C)" of Table 2 of 40CFR§73.10.*

NO_X Requirements	**2008**	**2009**	**2010**	**2011**	**2012**
NO_X Limit (lb/mmBtu)	0.96	0.96	0.96	0.96	0.96

Pursuant to 40 CFR §76.11, the West Virginia Department of Environmental Protection, Division of Air Quality approves five (5) NO_x emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2008, 2009, 2010, 2011 and 2012. Under each plan, the unit's NO_x emissions shall not exceed the annual alternative contemporaneous emission limitation (ACEL) of 0.96 lb/mmBtu. In addition, this unit shall not have an annual heat input greater than 18,151,000 mmBtu.

Under the plan, the actual Btu-weighted annual average NO_x emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO_x emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR §76.5, 76.6 or 76.7, except that for early election units, the applicable emission limitations shall be under 40 CFR §76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR §76.11(d)(1)(ii)(A)) is met for a year under the plan, then this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.

In accordance with 40 CFR §72.40(b)(2), approval of the averaging plan shall be final only when the Pennsylvania Department of Environmental Resources, Bureau of Air Quality Control and the Maryland Department of Environment, Air and Radiation Management Administration Air Program Coordination have also approved this averaging plan.

In addition to the described NO_x compliance plans, this unit shall comply with all other applicable requirements of 40 CFR Part 76, including the duty to reapply for a NO_x compliance plan and requirements covering excess emissions.

3. Comments, notes and justifications regarding decisions, and changes made to the permit application forms during the review process:

As a result of comments from American Electric Power, the 2008 and 2009 SO_2 allowances have been adjusted to reflect an October 30, 2000 reallocation of allowances by USEPA. The 2008 and 2009 allowances are the sum of Column "(B)" and Column "(C)" of Table 2 of 40CFR§73.10.

As a result of comments from USEPA, the "Operator" on Page 1 has been changed from *Monongahela Power Company* to *Allegheny Energy Supply Company, LLC*

4. Permit application forms:

Attached.

ORIGINAL

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Acid Rain Permit Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31

This submission is: X **New** ☐ **Revised**

STEP 1

Identify the source by plant name, State, and ORIS code.

Plant Name	State	ORIS Code
Willow Island Power Station	WV	3946

STEP 2

Enter the unit ID# for every affected unit at the affected source in column "a." For new units, enter the requested information in columns "c" and "d."

a	b	c	d
Unit ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	New Units Commence Operation Date	New Units Monitor Certification Deadline
1	Yes		
2	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		
	Yes		

Willow Island Power Station
Plant Name (from Step 1)

STEP 3

Read the standard requirements

Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
(i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
(ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
(2) The owners and operators of each affected source and each affected unit at the source shall:
(i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
(ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another affected unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
(i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

STEP 3, Cont'd.

Nitrogen Oxides Requirements The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an affected unit that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting
authority:
(i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.

Willow Island Power Station
Plant Name (from Step 1)

Step 3, Cont'd.

Liability, Cont'd.

(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one affected unit shall not be liable for any violation by any other affected unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided,* that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Certification

Read the certification statement, sign, and date

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name: Leo C. Rajter, Vice President Generation Operations	
Signature: Leo C. Rajter	Date: 6/26/07

ORIGINAL

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_x Averaging Plan

For more information, see instructions and refer to 40 CFR 76.11

This submission is: ☐ New ☒ Revised

STEP 1

Identify the units participating in this averaging plan by plant name, State, and boiler ID# from NADB. In column (a), fill in each unit's applicable emission limitation from 40 CFR 76.5, 76.6, or 76.7. In column (b), assign an alternative contemporaneous annual emissions limitation (ACEL) in lb/mmBtu to each unit. In column (c), assign an annual heat input limitation in mmBtu to each unit. Continue to page 3 if necessary.

Plant Name	State	ID#	(a) Emission Limitation	(b) ACEL	(c) Annual Heat Input Limit
Albright	WV	1	0.50	0.69	9,005,000
Albright	WV	2	0.50	0.70	9,005,000
Albright	WV	3	0.45	0.40	8,294,000
Armstrong	PA	1	0.50	0.40	10,571,000
Armstrong	PA	2	0.50	0.36	10,841,000
Fort Martin	WV	1	0.45	0.31	35,426,000
Fort Martin	WV	2	0.68	0.31	33,811,000
Harrison	WV	1	0.50	0.42	42,311,000
Harrison	WV	2	0.50	0.42	42,513,000

STEP 2

Use the formula to enter the Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan and the Btu-weighted annual average emission rate for the same units if they are operated in compliance with 40 CFR 76.5, 76.6, or 76.7. The former must be less than or equal to the latter.

Btu-weighted annual emission rate averaged over the units if they are operated in accordance with the proposed averaging plan		Btu-weighted annual average emission rate for same units operated in compliance with 40 CFR 76.5, 76.6 or 76.7
0.43	≤	0.56

$$\frac{\sum_{i=1}^{n} (R_{Li} \times HI_i)}{\sum_{i=1}^{n} HI_i} \leq \frac{\sum_{i=1}^{n} [R_{1i} \times HI_i]}{\sum_{i=1}^{n} HI_i}$$

Where,

R_{Li} = Alternative contemporaneous annual emission limitation for unit i, in lb/mmBtu, as specified in column (b) of Step 1:

R_{1i} = Applicable emission limitation for unit i, in lb/mmBtu, as specified in column (a) of Step 1;

HI_i = Annual heat input for unit i, in mmBtu, as specified in column (c) of Step 1;

n = Number of units in the averaging plan

ORIGINAL

Albright, Armstrong, Ft. Martin, Harrison, Hatfield, Mitchell, Pleasants, Rivesville, R. Paul Smith, and Willow Island
Plant Name (from Step 1)

STEP 3

Mark one of the two options and enter dates.

☐ This plan is effective for calendar year _____ through calendar year _____ unless notification to terminate the plan is given.

☒ Treat this plan as [5] identical plans, each effective for one calendar year for the following calendar years: 2008, 2009, 2010, 2011 and 2012 unless notification to terminate one or more of these plans is given.

STEP 4

Read the special provisions and certification, enter the name of the designated representative, and sign and date.

Special Provisions

Emission Limitations

Each affected unit in an approved averaging plan is in compliance with the Acid Rain emission limitation for NO_x under the plan only if the following requirements are met:

(i) For each unit, the unit's actual annual average emission rate for the calendar year, in lb/mmBtu, is less than or equal to its alternative contemporaneous annual emission limitation in the averaging plan, and
(a) For each unit with an alternative contemporaneous emission limitation less stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year does not exceed the annual heat input limit in the averaging plan,
(b) For each unit with an alternative contemporaneous emission limitation more stringent than the applicable emission limitation in 40 CFR 76.5, 76.6, or 76.7, the actual annual heat input for the calendar year is not less than the annual heat input limit in the averaging plan, or
(ii) If one or more of the units does not meet the requirements of (i), the designated representative shall demonstrate, in accordance with 40 CFR 76.11(d)(1)(ii)(A) and (B), that the actual Btu-weighted annual average emission rate for the units in the plan is less than or equal to the Btu-weighted annual average rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations in 40 CFR 76.5, 76.6, or 76.7.
(iii) If there is a successful group showing of compliance under 40 CFR 76.11(d)(1)(ii)(A) and (B) for a calendar year, then all units in the averaging plan shall be deemed to be in compliance for that year with their alternative contemporaneous emission limitations and annual heat input limits under (i).

Liability

The owners and operators of a unit governed by an approved averaging plan shall be liable for any violation of the plan or this section at that unit or any other unit in the plan, including liability for fulfilling the obligations specified in part 77 of this chapter and sections 113 and 411 of the Act.

Termination

The designated representative may submit a notification to terminate an approved averaging plan, in accordance with 40 CFR 72.40(d), no later than October 1 of the calendar year for which the plan is to be terminated.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name David C. Cannon Jr., DR	
Signature	Date 6/22/2007

ORIGINAL

Albright, Armstrong, Ft. Martin, Harrison, Hatfield, Mitchell, Pleasants, Rivesville, R. Paul Smith, and Willow Island
Plant Name (from Step 1)

STEP 1

Continue the identification of units from Step 1, page 1, here.

Plant Name	State	ID#	(a) Emission Limitation	(b) Alt. Contemp. Emission Limitation	(c) Annual Heat Input Limit
Harrison	WV	3	0.50	0.42	36,074,000
Hatfield's Ferry	PA	1	0.68	0.39	27,295,000
Hatfield's Ferry	PA	2	0.68	0.39	22,305,000
Hatfield's Ferry	PA	3	0.68	0.39	30,720,000
Mitchell	PA	33	0.45	0.36	12,384,000
Pleasants	WV	1	0.50	0.34	38,320,000
Pleasants	WV	2	0.50	0.37	36,129,000
Rivesville	WV	7	0.80	0.90	5,790,000
Rivesville	WV	8	0.80	0.67	4,672,000
R. Paul Smith	MD	9	0.50	0.80	4,292,000
R. Paul Smith	MD	11	0.45	0.41	4,119,000
Willow Island	WV	1	0.80	0.58	3,529,000
Willow Island	WV	2	0.86	0.96	18,151,000

ORIGINAL

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0258

Phase II NO_X Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

This submission is: ☐ New ☒ Revised

STEP 1
Indicate plant name, State, and ORIS code from NADB, if applicable

Plant Name	State	ORIS Code
Willow Island Power Station	WV	3946

STEP 2

Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.

	ID# 1 Type V	ID# 2 Type CY	ID# Type	ID# Type	ID# Type	ID# Type
(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)	☐	☐	☐	☐	☐	☐
(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)	☐	☐	☐	☐	☐	☐
(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)	☐	☐	☐	☐	☐	☐
(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)	☐	☐	☐	☐	☐	☐
(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)	☐	☐	☐	☐	☐	☐
(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)	☐	☐	☐	☐	☐	☐
(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)	☐	☐	☐	☐	☐	☐
(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)	☐	☐	☐	☐	☐	☐
(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)	☐	☐	☐	☐	☐	☐
(j) NO_x Averaging Plan (include NO_x Averaging form)	☒	☒	☐	☐	☐	☐
(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)	☐	☐	☐	☐	☐	☐
(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging form)	☐	☐	☐	☐	☐	☐

ORIGINAL

Plant Name (from Step 1)	Willow Island Power Station

STEP 2, cont'd.

	ID# / Type	ID# / Type	ID# / Type	ID# / Type	ID# / Type	ID# / Type
(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)	☐	☐	☐	☐	☐	☐
(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)	☐	☐	☐	☐	☐	☐
(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing	☐	☐	☐	☐	☐	☐
(p) Repowering extension plan approved or under review	☐	☐	☐	☐	☐	☐

STEP 3
Read the standard requirements and certification, enter the name of the designated representative, sign &

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).
Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.
Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name	David C. Cannon Jr., DR	
Signature	David Cannon	Date 6/22/2007

APPENDIX E

Willow Island Power Station Consent Order

1) Tire Derived Fuel (TDF) # CO-R13-99-39

Office of Air Quality
1558 Washington Street, East
Charleston, WV 25311
Telephone Number: (304) 558-4022
Fax Number: (304) 558-3287

West Virginia Division of Environmental Protection

Cecil H. Underwood
Governor

Michael C. Castle
Director

DIVISION OF ENVIRONMENTAL PROTECTION
OFFICE OF AIR QUALITY
1558 Washington Street, East
Charleston, West Virginia 25311

v. CO-R13-99-39

Plant ID # 073-0004

MONONGAHELA POWER COMPANY
d.b.a. ALLEGHENY POWER
800 CABIN HILL DRIVE
GREENSBURG, PA 15601

CONSENT ORDER

This Consent Order is entered under the authority and direction of Chapter 22, Article 5, Section 4 of the West Virginia Code.

I. FINDINGS OF FACT

1. Monongahela Power Company ("Company"), a wholly owned subsidiary of Allegheny Power, operates a coal-fired electric generation facility known as Willow Island Power Station ("Facility") located at Willow Island, West Virginia.

2. The Facility includes two (2) units, Unit 1 - a 55 MW top fired boiler and Unit 2 - a 190 MW cyclone fired wet bottom boiler.

3. On February 25, 1998, the Office of Air Quality ("OAQ") received correspondence from the Company dated February 23, 1998, requesting permission to conduct a Tire Derived Fuel ("TDF") test burn at the Facility's Unit No.2 cyclone boiler, using approximately 300 tons of 1-1/2 inch nominal TDF.

4. On May 1, 1998, the Company submitted for review two copies of the test results for the TDF test burn, which consisted of results at multiple generation and boiler loading.

5. On May 5, 1999, the Office of Air Quality received correspondence from the Company dated May 3, 1999, requesting permission to conduct a TDF test burn at the Facility's Unit 2, using 2 inch nominal, 3 inch maximum TDF product, and burning approximately 300 tons of TDF.

6. On May 19, 1999, the OAQ issued an executed Consent Order, (CO-R13-99-19) granting the Company permission to conduct a TDF test burn.

7. On July 21, 1999, The Company submitted for review, two copies of the test results for the TDF test burn in accordance with CO-R-13-99-19.

II. CONCLUSIONS OF LAW

1. The Division of Environmental Protection ("Division") is the agency empowered and authorized to regulate and control air pollution in the State of West Virginia as set forth in the West Virginia Code.

2. The Chief ("Chief") of the OAQ is empowered to implement and enforce the regulations of the Division.

3. The Chief has acted in accordance with the West Virginia Code.

4. The Facility is subject to the jurisdiction of OAQ for the purposes specified in this Consent Order, to conduct an ongoing "Pilot Project" to burn TDF at Willow Island Power Station, unit #2.

III. COMPLIANCE PROGRAM

1. The Company hereby agrees to comply with the West Virginia Code § 22-5, 45 CSR 13 – "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permits, General Permits, and Procedures for Evaluation", 45 CSR 2 "To Prevent and Control Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers", and 45 CSR 10 "To Prevent and Control Air Pollution from the Emissions of Sulfur Oxides."

2. The Company will continuously monitor sulfur dioxide (SO_2) emissions, nitrogen oxide (NO_x) emissions, carbon dioxide (CO_2) emissions, volumetric flow rates, and opacity through the use of a certified Continuous Emission Monitoring System (CEMS) and Continuous Opacity Monitoring System (COMS). Carbon monoxide (CO) shall be monitored by existing equipment that is maintained and calibrated and/or by calculation of CO emissions by methods agreed to by the Chief.

3. The Company shall establish a baseline for emissions of SO_2, NO_x, CO_2, particulate matter, and CO by determining the hourly average emission during the most recent past five year period (historical data) for use in determining any future increase in emissions and determining 45 CSR 14 (PSD) or 45 CSR 13 permit applicability.

4. Prior to commencing the use of TDF, the Company will conduct emission tests to determine emissions of particulate matter and CO to confirm baseline data, methods of calculation, and

accuracy of existing monitors. Data for SO_2, NO_x, and CO_2 obtained pursuant to 45 CSR Part 75 shall be deemed acceptable as baseline data.

5. The Company shall conduct or have conducted a stack test for particulate and CO emissions with in ninety (90) days of commencing the use of TDF. Thereafter, on no less than an annual basis the Company shall conduct or have conducted a stack test for particulate and CO emissions in conjunction with a CEMS relative accuracy test audit (RATA), and within forty-five (45) of completion of tests shall submit the report of test results to the Chief of the OAQ.

6. The Company will monitor and record daily, the consumption of coal and TDF burned in unit #2 cyclone boiler, and the data shall be kept on site for a period no less than 5 years, and submitted to the Chief of the OAQ quarterly within 30 days of the end of each calendar quarter.

7. The Company shall conduct or have conducted an ultimate analysis on a representative sample of the TDF on a semi-annual basis. The results data will be kept on site for no less than 5 years and submitted to the Chief of the OAQ within 30 days of receiving data.

8. The Company shall conduct or have conducted on a quarterly basis an analysis for total metals, including zinc, on a representative sample of the flyash produced. A minimum of one such analysis shall be performed on a representative sample collected during the annual RATA pursuant to acid rain requirements pursuant of 40 CFR Part 75. The results shall be kept on site no less than 5 years and shall submitted to the Chief of the OAQ within 30 days of the end of each calendar quarter.

9. The Company shall consume TDF at a maximum 3" nominal in size, or smaller, in accordance with industry standards for sizing TDF.

10. The Company will amend its Title V application for Willow Island Power Station to include the burning of TDF as an alternate fuel.

11. The Company shall not burn a fuel combination that consists of greater than 10% of TDF by weight based on forty-eight hour averages.

12. This Consent Order shall terminate upon notification by the Company that it intends to permanently cease using TDF at the Willow Island Station, the Company ceases to use TDF for two (2) complete and consecutive years, a determination and notification to the Company by the OAQ that it has reason to believe that continued use of TDF is not environmentally sound, or such time that a permit or permit modification may be issued for a change in operation involving the use of TDF.

13. This Consent Order does not preclude the Company of its obligation to make a timely application for a permit pursuant to 45 CSR 13 and 45 CSR 14 should the data indicate applicability, nor does this consent agreement preclude the OAQ from enforcement action involving excess emissions resulting from the combustion of TDF.

IV. OTHER PROVISIONS

1. The Company agrees to comply with all requirements of this Consent Order and further agrees to waive any and all rights of appeal of this Consent Order. However, the Company reserves its right to contest any enforcement actions with respect to all alleged violations of the terms and conditions of this Consent Order, or any modifications or amendments thereof.

2. Nothing contained in this Consent Order shall be interpreted in such a manner as to relieve the Company of the responsibility to make all necessary short-term emission reductions as provided and required in 45 CSR 11 - "Prevention of Air Pollution Emergency Episodes".

3. The provisions of this Consent Order are severable and should any provisions be declared by a court of competent jurisdiction to be invalid or unenforceable, all other provisions shall remain in full force and effect.

4. The Chief agrees that the Company shall have the right to petition OAQ for an amendment to this Consent Order in the event of a "force majeure" condition. The petition shall state such force majeure condition with specificity. The Chief shall hear the Company's petition and determine the relief accorded, if any.

5. This Consent Order shall become effective immediately upon signing by both parties.

6. This Consent Order is binding on the Company, its successors and assigns.

7. Violations of this Consent Order may subject the Company to penalties in accordance with W.Va. Code §22-5-6 and injunctive relief in accordance with W.Va. Code §22-5-7. This Consent Order shall serve as written notice of violation as contemplated in W.Va. Code §22-5-6 for failure to comply with each scheduled provision of Section III of this Consent Order.

AND NOW, this _____ day of _____, 1999, the DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF AIR QUALITY agrees to and enters into this Consent Order.

OFFICE OF AIR QUALITY

Signed

_____

By Its CHIEF
Edward L. Kropp

MONONGAHELA POWER COMPANY, hereby agrees with the provisions and consents to the terms of this Consent Order and agrees to comply with all requirements set forth herein.

AND NOW, this _____ day of _____, 1999, MONONGAHELA POWER COMPANY, by its duly authorized representative, consents to, agrees to and enters into this Consent Order.

MONONGAHELA POWER COMPANY

Signed November 8, 1999
By _____
Donald R. Feenstra

Its Vice President, Energy Supply
Generation Division